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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

16nd FEBRUARY, 2024

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**THE PATENT OFFICE
KOLKATA, 16/02/2024**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

1	<p>Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in</p>	4	<p>The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <p>❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</p>
2	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <p>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli</p>	5	<p>The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <p>❖ Rest of India</p>
3	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E.mail: delhi-patent@nic.in</p> <p>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttaranchal, Delhi and the Union Territory of Chandigarh.</p>		

Website: www.ipindia.nic.in

www.patentoffice.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय
कोलकाता, दिनांक 16/02/2024

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

<p>1 कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फ़ैक्स: (91) (22) 24123322 ई. मेल: cgpdmt@nic.in</p>	<p>4 पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फ़ैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्षदीप</p>
<p>2 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फ़ैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ गुजरात, महाराष्ट्र, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, दावर और नगर हवेली.</p>	<p>5 पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फ़ैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is there is no third party representation.

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211027864 A

(19) INDIA

(22) Date of filing of Application :14/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ENERYGY CHANNELIZATION

(51) International classification :H02J0003320000, H02J0003380000, H02J0007000000, H01M0010420000, G06F0003140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Servotech Power Systems Ltd.

Address of Applicant :806, 8th Floor, Crown Heights, Near Hotel Crowne Plaza, Sector-10, Rohini, Delhi, North West , Pin 110085 Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)BHATIA, Raman

Address of Applicant :806, Crown Heights, Rohini Sector -10, New Delhi – 110085 India Rohini -----

2)HANDA, Arun

Address of Applicant :806, Crown Heights, Rohini Sector -10, New Delhi – 110085 India Rohini -----

(57) Abstract :

TITLE OF THE INVENTION : SYSTEM AND METHOD FOR ENERYGY CHANNELIZATION A system (100) for energy channelization is disclosed. The system (100) includes an energy channelization module (315) and at least one control circuit (211). The energy channelization module (315) calculates at least two fractions of energy to be channelized between two or more electrical systems based upon error profiles of the two or more electrical systems and an SOC of a storage unit (105) and sends at least one control signal based upon the at least two fractions to the at least one control circuit (211), which channelizes energy between the two or more electrical systems as per the at least two fractions. The error profile for each electrical system is generated based upon a real-time profile and a standard profile of the electrical system, wherein the real-time profile is created using values of electrical parameters for the electrical system obtained at a pre-defined interval. FIG. 2

No. of Pages : 127 No. of Claims : 44

(54) Title of the invention : SYSTEM AND METHOD FOR PEAK SHAVING

(51) International classification :H02J0003320000, H02J0007000000, H02J0003380000, H02J0013000000, H02J0003140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Servotech Power Systems Ltd.

Address of Applicant :806, 8th Floor, Crown Heights, Near Hotel Crowne Plaza, Sector-10, Rohini, Delhi, North West , Pin 110085 Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)BHATIA, Raman

Address of Applicant :806, Crown Heights, Rohini Sector -10, New Delhi – 110085 India Rohini -----

2)HANDA, Arun

Address of Applicant :806, Crown Heights, Rohini Sector -10, New Delhi – 110085 India Rohini -----

(57) Abstract :

TITLE OF INVENTION: SYSTEM AND METHOD FOR PEAK SHAVING A system (100) for peak shaving is disclosed. The system (100) includes a peak shaving module (317) and at least one control circuit (211). The peak shaving module (317) determines, based upon error profiles of a plurality of electrical systems, at least one electrical system to drive a load (109) during peak hours and sends at least one control signal to the at least one control circuit (211). The at least one control circuit (211), including at least one power semiconductor switching element, receives the at least one control signal and couples the at least one electrical system to the load (109) to drive the load (109). The error profile for each electrical system is generated based upon a real-time profile and a standard profile of the electrical system, wherein the real-time profile is created using values of electrical parameters for the electrical system obtained at a pre-defined interval. FIG. 2

No. of Pages : 115 No. of Claims : 22

(54) Title of the invention : A MULTI-ARM ROBOTIC SURGICAL SYSTEM

(51) International classification :A61B0034300000, A61B0017000000, A61B0090000000, A61B0034000000, A61B0034200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Sudhir Prem Srivastava
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)SRIVASTAVA, Sudhir Prem
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
2)SRIVASTAVA, Vishwajyoti Pascual
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
3)Hemdan, Nitin
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
4)DWIVEDI, Suraj
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
5)DYAVA, Rama Krishna Reddy
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
6)KULKARNI, Shubhankar Sanjiv
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
7)PATIDAR, Anil Kumar
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
8)CHOPDAR, Suryanshu Sundar
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
9)KUMAR, S Naveen Ajay
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
10)Manish
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----
11)SINGH, Yogesh
 Address of Applicant :3rd Floor, 404-405, iLabs Info Technology Centre, Phase III, Udyog Vihar, Gurugram, Haryana, India – 122016 -----

(57) Abstract :
 A multi-arm robotic surgical system (100) having an endoscopic camera (C) coupled to a robotic arm (102a) and a plurality of surgical instruments (302, 304, 306, 308) each detachably coupled to a robotic arm (102b, 102c, 102d, 102e). The multi-arm robotic surgical system (100) further comprises of a surgeon console (400) having a master controller (402), a left-hand controller (404) and a right-hand controller (406), a three-dimensional (3D) HD monitor (408), a two-dimensional (2D) touch screen monitor (410), a pair of trackable 3D glasses (414) to be worn by the surgeon, a head tracking camera (412), a foot pedal controller (416), a control panel (418) for performing emergency system functions, an electrosurgical unit interface (502), an image processor (504) configured to process a 3D image data received from the endoscopic camera (C), a digital device (506) configured to prepare an image data by using the processed 3D image data received from the image processor (504) and superimposing it with a 2D overlay including a status of the plurality of surgical instruments (302, 304, 306, 308) and display on the 3D HD monitor (408) and a patient side staff 3D monitor (508). Figure 1

No. of Pages : 41 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211067593 A

(19) INDIA

(22) Date of filing of Application :24/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : NOVEL METHOD FOR PREPARATION OF VINCRISTINE LOADED EXOSOMES AND THEIR THERAPEUTIC INTERVENTION THEREOF

<p>(51) International classification :A61K0036240000, A01H0005020000, A61K0031475000, A61P0035000000, A61K0009000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH, RAEBARELI Address of Applicant :Transit Campus, Sarojini Nagar, Bijnor Sisendi Road, Near CRPF base camp, Ahmadpur Kamlapur, Lucknow, Uttar Pradesh-226002 Lucknow -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Miss Reetika Tandon Address of Applicant :PhD Scholar, Department of Biotechnology, National Institute of Pharmaceutical Education and Research, Raebareli, Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp, Lucknow (UP)- 226002 Lucknow- India Lucknow -----</p> <p>2)Mr. Mayank Handa Address of Applicant :PhD Scholar, Department of Pharmaceutics, National Institute of Pharmaceutical Education and Research, Raebareli, Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp, Lucknow (UP)- 226002 Lucknow- India Lucknow -----</p> <p>3)Dr. Rahul Shukla Address of Applicant :Assistant Professor, Department of Pharmaceutics, National Institute of Pharmaceutical Education and Research, Raebareli, Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp, Lucknow (UP)- 226002 Lucknow- India Lucknow -----</p> <p>4)Dr. Nidhi Srivastava Address of Applicant :Associate Professor, Department of Biotechnology, National Institute of Pharmaceutical Education and Research, Raebareli, Bijnor-Sisendi Road, Sarojini Nagar, Near CRPF Base Camp, Lucknow (UP)- 226002 Lucknow- India Lucknow -----</p>
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(57) Abstract :

The present invention discloses a novel method for preparation of Vincristine loaded exosomes and their therapeutic intervention thereof. The present invention provides the novel process of formulation of Catharanthus roseus derived exosomes in nano-sized range. This invention also relates to the Catharanthus derived exosomes loaded with vincristine comprises of anti-cancer properties. The prepared formulation comes under nano range and also suitable for other pharmacological application.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211071051 A

(19) INDIA

(22) Date of filing of Application :09/12/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A PREDICTIVE AND PRESCRIPTIVE SYSTEM FOR REAL-TIME TEST AND ANALYSIS OF SOIL, WATER AND ENVIRONMENT

(51) International classification :G06N0003080000, G06N0020000000, G16H0050200000, G06N0003040000, G06Q0030020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Virentiatech Private Limited

Address of Applicant :Plot no. 232A, 3rd floor, Phase III, Okhla Industrial Area Estate, New Delhi- 110020 Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SATYAM KHAGEN BOSE

Address of Applicant :PV-02, Tower 3, Dubai Creek Residences South, Dubai Creek Harbour, Dubai, Pin code- 413949 United Arab Emirates Dubai -----

2)DR. REJI KURIEN THOMAS

Address of Applicant :D1, JM Apartments, Freedom Road, Kaloor, Kochi, Kerala, Pincode-689017, India Kochi -----

(57) Abstract :

The invention presents a cutting-edge System and Method for real-time assessment of agricultural parameters on locale through a revolutionary Test and Monitoring System (TMS). The TMS integrates a central microcontroller with various sensors, such as Soil pH, Temperature, Moisture, NPK, Conductivity, and TDS, enabling comprehensive monitoring. This real-time data is effortlessly transmitted to a server through Bluetooth, offering instant visualization on a user-friendly app. With an embedded Artificial Intelligence and Machine Learning (AI/ML) engine, the TMS continually evolves to adapt to dynamic agricultural and weather conditions etc. It introduces a Decision Support System for cultivators, providing insights for optimized farming practices and enhancing user convenience and reducing dependency on external advisors, practitioners, and agronomists by providing instant and comprehensive data for informed decision-making in farming activities. This innovation addresses the drawbacks of traditional agricultural related testing methods, ensuring precision agriculture, and liberating dependencies.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311025077 A

(19) INDIA

(22) Date of filing of Application :01/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SENSING PROBE AND METHOD FOR DETECTING GLYCATED HEMOGLOBIN

(51) International classification :G01N0033720000, G01N0021640000, A61P0013120000, G01N0033680000, A61K0045060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Banaras Hindu University, Varanasi, U.P., India 221005 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sanjay Kumar Srivastava

Address of Applicant :Department of Physics, Institute of Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005 Varanasi -----

2)Pinky Sagar

Address of Applicant :Department of Physics, Institute of Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, 221005 Varanasi -----

(57) Abstract :

The present invention relates to a sensing probe and method of detection of the glycated haemoglobin. More specifically the present invention relates to detection of glycated haemoglobin with the help of fluorescence spectroscopy by combining colloidal solution of P-MoS2 QDs with 3-APBA so that it shows prominent selectivity towards the sensing of HbA1C which helps to detect HbA1C in the concentration range of 2-15% of HbA1C.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311025078 A

(19) INDIA

(22) Date of filing of Application :01/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVELOPMENT OF AN ECONOMIC PROTOCOL FOR ENHANCED β -CAROTENE EXTRACTION FROM MICROALGALBIOMASS

(51) International classification :C12N0001120000, A61P0009120000, C12R0001890000, A61P0029000000, A61P0039060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Varanasi, Uttar Pradesh-221005, India -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. Ravi Kumar Asthana

Address of Applicant :R. N. Singh Memorial Laboratory, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi, UP. Varanasi -----

2)Nitesh Prasad

Address of Applicant :R. N. Singh Memorial Laboratory, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi, UP. Varanasi -----

3)Abhishek Mohanta

Address of Applicant :R. N. Singh Memorial Laboratory, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi, UP. Varanasi -----

(57) Abstract :

The present invention discloses a modified protocol for enhanced β -carotene extraction using ternary mixture wherein the β -carotene is extracted from microalga, *Dunaliella salina*(MCC43). The present disclosure relates to the modified, efficient and cost effective process of adding alkali solution((4%) NaOH mixture) of algal biomass(500mg) in a ternary mixture(1.5:1.5:1 (v/v/v)) to obtain carotenoid component.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311027550 A

(19) INDIA

(22) Date of filing of Application :14/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A LOW-COST AND PORTABLE, SMALL ANIMALS' DEVICE FOR SIMULATION OF DIFFERING ENVIRONMENTAL CONDITIONS

(51) International classification :A61G0010020000, G01N0033000000, A61M0016100000, F24F0011000000, H05K0007200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Varanasi, Uttar Pradesh, India 221005

Varanasi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Kumar Sarvottam

Address of Applicant :Department of Physiology, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005 (U.P), India Varanasi -----

2)Anil Kumar Yadav

Address of Applicant :Department of Physiology, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005 (U.P), India Varanasi -----

(57) Abstract :

The present invention relates to airtight chamber (cabin) capable of stimulating various environmental conditions. More specifically the present invention discloses airtight chamber (Cabin) comprising different sensors like pO₂ sensor(1) for measuring of partial pressure of oxygen, CO₂ sensor(2) to measure the concentration of CO₂ in chamber, humidity sensor(3) to measure relative humidity, Barometric sensor(4) to measure ambient atmospheric pressure inside cabin of the device, AQI sensor (5) to measure the air quality inside chamber and a temperature sensor (6); a microcontroller; a power supply system connected to main power, to supply different power required by different components like controller, valves, sensor, pump etc, a vacuum pump, a nitrogen source, pollutant source, air/oxygen source connected with hose connector by plastic tubing provided with solenoid valves (11, 12, 13) and pressure regulator (14, 15, 16). It also consists of a cooling compressor with heat dissipation coil and fan outside chamber and a cooling coil (7) with Fan (F10) a heater (9). The airtight chamber(cabin) configured to stimulate various environmental conditions such as hypobaric hypoxia, normobaric hypoxia, normobaric hyperoxia, hyperbaric hyperoxia, light and humidity. Figure 1.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211055723 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : EMERGENCY ALERTING SYSTEM FOR TRANSMITTING AN ALERT MESSAGE TO USERS THROUGH TV INFRASTRUCTURE

<p>(51) International classification :H04W000490000, H04H0020590000, H04W0004024000, G08B0027000000, G08G0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Centre for Development of Telematics Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)BASU, Saurabh Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>2)SHARMA, Sandeep Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>3)BEHERA, Suvam Suvabrata Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>4)KUMAR, Anugandula Naveen Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>5)YADAV, Kamlesh Kumar Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>6)SACHDEV, Smriti Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p> <p>7)DALELA, Pankaj Kumar Address of Applicant :Centre for Development of Telematics, C-DOT Campus, Mandi Road, Mehrauli, New Delhi - 110030, India. New Delhi -----</p>
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(57) Abstract :

The present disclosure relates to an emergency alerting system. The emergency alerting system includes an emergency alerting unit and a target alerting unit. The emergency alerting unit is configured to receive an alert information from disaster management entities. The emergency alerting unit further identifies the target area based on the alert information and configured it into a standardized format. The target alerting unit configured to receive the standardized alert information from the emergency alerting unit. The target alerting unit further maps the target area to a geographical administrative boundaries format information. The target alerting unit further configured to transmit, a second information, to the one or more digital television broadcasting entities for displaying an alert message.

No. of Pages : 34 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311025298 A

(19) INDIA

(22) Date of filing of Application :03/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING AUTHENTICITY OF A USER BASED ON AN ARTIFICIAL INTELLIGENCE (AI) MODEL

(51) International classification :G06F0021320000, G06T0007000000, H04L0067520000, G06Q0050000000, G06T0007900000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HELLO VERIFY INDIA PRIVATE LIMITED

Address of Applicant :UG-7, SUNEJA TOWER-1, DISTRICT CENTRE JANAKPURI, NEW DELHI – 110058, INDIA NEW DELHI -----

2)SOCIALTICK CLUB LLP

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MIRCHANDANI, Varun Sonu

Address of Applicant :F-166, MALCHA MARG, CHANAKAYA PURI, NEW DELHI - 110021, INDIA NEW DELHI -----

(57) Abstract :

Disclosed is a method for determining the authenticity of a user using an artificial intelligence (AI) model. The method includes determining an image score based on matching a captured image with a document image. Further, the method includes determining a short-video score based on matching a captured short-video with the document image. Further, the method includes determining a liveliness factor associated with the user based on a dialogue narrated by the user. Furthermore, the method includes determining a location score based on matching a captured geographical coordinates corresponding to the user with an input location. Furthermore, the method includes computing a total authentic score based on the image score, the short-video score, and the location score such that authenticity of the user is determined if the total authentic score exceeds a pre-defined threshold.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311036367 A

(19) INDIA

(22) Date of filing of Application :25/05/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOIL ANALYSIS SYSTEM, APPARATUS, AND METHOD THEREOF

(51) International classification :G01J3/00, G01N1/02,
G01N33/24
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ECSO GLOBAL PRIVATE LIMITED

Address of Applicant :4th Floor, Statesman House
Barakhamba Road, Connaught Place, New Delhi, Delhi, 110001,
India New Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sourabh Bagla

Address of Applicant :4th Floor, Statesman House Barakhamba
Road, Connaught Place, New Delhi, Delhi, 110001, India New
Delhi -----

2)Nipun Sabharwal

Address of Applicant :4th Floor, Statesman House Barakhamba
Road, Connaught Place, New Delhi, Delhi, 110001, India New
Delhi -----

3)Kanchan Debnath

Address of Applicant :4th Floor, Statesman House Barakhamba
Road, Connaught Place, New Delhi, Delhi, 110001, India New
Delhi -----

4)Puja Arti

Address of Applicant :4th Floor, Statesman House Barakhamba
Road, Connaught Place, New Delhi, Delhi, 110001, India New
Delhi -----

5)Anurag Raghav

Address of Applicant :4th Floor, Statesman House Barakhamba
Road, Connaught Place, New Delhi, Delhi, 110001, India New
Delhi -----

(57) Abstract :

Disclosed is a soil analysis apparatus (106) that includes a sample collection box (202), a reagent supplier unit (104), and a spectrophotometer (206). The spectrophotometer (206) includes a plurality of tubes (212a-212n) and processing circuitry (220). The reagent supplier unit (204) supplies a first set of reagents to the sample collection box (202) such that the first set of reagents that mixes with the plurality of soil samples (222a-222c) in the sample collection box (202). The first set of reagents are filtered through the plurality of soil samples (222a-222c) to draw a liquid extract. The plurality of tubes (212a-212n) is adapted to receive the liquid extract such that a second set of reagents mixes with the liquid extract to generate a solution. The processing circuitry (220) is configured to determine, based on the colour of the solution, one or more soil parameters. FIG. 2 is the reference figure.

No. of Pages : 33 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311043231 A

(19) INDIA

(22) Date of filing of Application :28/06/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROCESS FOR A RUTHENIUM DOPING OF A SODIUM SUPERIONIC CONDUCTOR CERAMIC IN SODIUM-ION BATTERIES

<p>(51) International classification :H01M0010056200, H01M0010054000, H01M0004020000, C01B0025450000, H01M0004580000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING,POST OFFICE: IIT KANPUR,KANPUR,UTTAR PRADESH - 208016, INDIA KANPUR ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MAYANGLAMBAM DINACHANDRA SINGH Address of Applicant :DEPARTMENT OF SUSTAINABLE ENERGY ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR,POST OFFICE: IIT KANPUR,KANPUR,UTTAR PRADESH - 208016, INDIA KANPUR ----- 2)KUMAR BRAJESH Address of Applicant :DEPARTMENT OF SUSTAINABLE ENERGY ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR,POST OFFICE: IIT KANPUR,KANPUR,UTTAR PRADESH - 208016, INDIA KANPUR ----- 3)RAJU KUMAR GUPTA Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR,POST OFFICE: IIT KANPUR,KANPUR,UTTAR PRADESH - 208016, INDIA KANPUR ----- 4)KANWAR SINGH NALWA Address of Applicant :DEPARTMENT OF SUSTAINABLE ENERGY ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY KANPUR,POST OFFICE: IIT KANPUR,KANPUR,UTTAR PRADESH - 208016, INDIA KANPUR -----</p>
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(57) Abstract :

ABSTRACT PROCESS FOR A RUTHENIUM DOPING OF A SODIUM SUPERIONIC CONDUCTOR CERAMIC IN SODIUM-ION BATTERIES The present invention discloses a process for a ruthenium doping of a sodium superionic conductor (NASICON) ceramic in sodium-ion batteries. The process (100) involves mixing a plurality of constituent compounds in a stoichiometric ratio to form a ceramic mixture. The process of mixing the plurality of constituent compounds employs a wet milling procedure by a milling machinery. The plurality of constituent compounds comprises a sodium carbonate (Na₂CO₃) (110), zirconium dioxide (ZrO₂) (112), silicon dioxide (SiO₂) (114), ammonium dihydrogen phosphate (NH₄H₂PO₃) (116) and ruthenium dioxide (RuO₂) (118).The process (100) provides a path for cost-effective and scalable manufacturing of high-performance energy storage devices, contributing to the advancement of sustainable energy technologies. The process (100)enhances the viability of solid-state sodium-ion batteries, offering improved ionic conductivity at lower temperatures. FIG. 1B

No. of Pages : 39 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211067193 A

(19) INDIA

(22) Date of filing of Application :23/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PESTICIDAL COMPOSITION FOR SEED TREATMENT

(51) International classification :A01C0001080000, A01N0063300000, A01N0025320000, H01L0027120000, A01N0043900000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sidhivinayak Chemtech Private Limited

Address of Applicant :office no. 202, second floor, Shivlok house-1, Plot no. A-2, commercial complex, Karampura, New Delhi Karampura -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SAHILA SETHI

Address of Applicant :#415/5 Gali No.4, Kirti Nagar, Sirsa-125055, Haryana, India Haryana -----

(57) Abstract :

The present invention relates to a synergistic pesticidal composition for seed treatment capable of protecting plant propagation materials such seeds, seedlings; and plants/crops from harmful effects of seed-borne, soil borne pathogenic fungi and/or insect pests.

No. of Pages : 54 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311024707 A

(19) INDIA

(22) Date of filing of Application :31/03/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR PERSONALIZED GUIDANCE FOR IMAGE CAPTURING

(51) International classification :G06F0003010000, H04N0005247000, G08B0006000000, G10L0013000000, H04N0005232000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr B R Ambedkar National Institute of Technology, Jalandhar

Address of Applicant :G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India - 144027. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. ARUNA MALIK

Address of Applicant :Department of Computer Science & Engineering Dr B R Ambedkar National Institute of Technology Jalandhar G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India - 144027 Jalandhar -----

2)DR. SAMAYVEER SINGH

Address of Applicant :Department of Computer Science & Engineering Dr B R Ambedkar National Institute of Technology Jalandhar G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India – 144027 Jalandhar -----

3)DR. RAJEEV KUMAR

Address of Applicant :Department of Computer Science & Engineering Delhi Technological University New Delhi Shahbad Daulatpur Village, Rohini, New Delhi, Delhi 110042 Jalandhar ---

(57) Abstract :

The present invention relates to a system (100) and method (200) for personalized guidance for image capturing, comprising an image capturing device (102), a memory (106), an AI/ ML/ DL module (108) further comprising an identification module (110) which is configured to use facial recognition to identify user and a feature extraction module (112) that is configured to extract one or more features of user from real time images captured. Further, a guide module (114) which is configured to create a personalize guide that keeps on updating continuously, comprising one or more features identified from previous photos. Further, the AI/ML/DL module (108) compares one or more features from personalized guide with those of real time image of user to identify violations while capturing photo. Further, a notification module (116) which is configured to provide one or more notifications for taking corrective actions against any identified violations.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311024708 A

(19) INDIA

(22) Date of filing of Application :31/03/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM FOR ADAPTIVE SELECTION OF HIGH-RESOLUTION COMMUNICATION AND SUPER-RESOLUTION COMMUNICATION

(51) International classification :A61B0018000000, G06T0003400000, H04N0021414000, H04W0004800000, G05B0023020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr B R Ambedkar National Institute of Technology, Jalandhar
 Address of Applicant :G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India - 144027. Jalandhar -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR. ARUNA MALIK
 Address of Applicant :Department of Computer Science & Engineering Dr B R Ambedkar National Institute of Technology Jalandhar G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India - 144027 Jalandhar -----

2)DR. SAMAYVEER SINGH
 Address of Applicant :Department of Computer Science & Engineering Dr B R Ambedkar National Institute of Technology Jalandhar G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India – 144027 Jalandhar -----

3)DR. MOHIT KUMAR
 Address of Applicant :Department of Information Technology Dr B R Ambedkar National Institute of Technology Jalandhar G.T. Road, Amritsar Bye-Pass, Jalandhar (Punjab), India – 144027 Jalandhar -----

4)DR. RAJEEV KUMAR
 Address of Applicant :Department of Computer Science & Engineering Delhi Technological University New Delhi Shahbad Daulatpur Village, Rohini, New Delhi, Delhi 110042 Jalandhar -----

(57) Abstract :
 A system (100) for adaptive selection of high-resolution communication and super-resolution communication, the system comprising: a memory (102), a processor (104) coupled to the memory (102). Further, the processor (104) is configured to execute plurality of instruction codes. Further, a communication module (106) is coupled to the processor (104). The communication module (106) is configured to provide an input signal received from the second user device via a signal tower. Further, a call selection module (108) coupled to the processor (104). The call selection module (108) is configured to enable an output signal between a high-resolution output signal (206) or a low-resolution output signal (208). Further, a generative module (110) is coupled to the processor (104). The generative module (110) is configured to convert the high-resolution output signal (206a) to a low-resolution output signal (208) from the first user device via the processor (104).

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311048357 A

(19) INDIA

(22) Date of filing of Application :19/07/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN AYURVEDIC NEBULIZER COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification :A61K0036190000, A61K0036810000, A61P0011060000, A61M0015000000, A61K0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Banaras Hindu University , Varanasi, U.P- 221005 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Prem Shanker Upadhyay

Address of Applicant :Department of Kaumarbhritya/Balroga, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005 Varanasi -----

2)Prof. Birinchi Kumar Sarma

Address of Applicant :Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi- 221005, UP, India Varanasi -----

(57) Abstract :

The present invention discloses the Ayurvedic Nebulizer Solution that harness the therapeutic properties of Kantkari (Solanum surattense) and Vasa (Adhatoda vasica) and delivers them as an aerosolized medication through a nebulizer for the treatment of Shwasaroga(childhood asthma). More specifically the invention discloses a composition and a process for the treatment of childhood Shwasaroga which includes preparation of aqueous extract of Kantkari (Solanum surattense) and Vasa (Adhatoda vasica), preparation of respiratory solution, diluting respiratory solution with saline water, aerosolization of the respiratory solution using a nebulizer. The Ayurvedic Nebulizer Solution is administered via a nebulizer device with a dosage of 0.07ml per kilogram of body weight per dose and the treatment method is maintained over a period of 7-10 days.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311024479 A

(19) INDIA

(22) Date of filing of Application :31/03/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOFERTILISER COMPOSITION FROM AQUATIC WEEDS

(51) International classification :C05F0011080000, A01N0043400000, A01D0044000000, A01N0063200000, A01K0063040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HUMAIRA QADRI

Address of Applicant :DEPARTMENT OF ENVIRONMENTAL SCIENCE, SRI PRATAP COLLEGE, M.A. ROAD, SRINAGAR-190001 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)HUMAIRA QADRI

Address of Applicant :DEPARTMENT OF ENVIRONMENTAL SCIENCE, SRI PRATAP COLLEGE, M.A. ROAD, SRINAGAR-190001 -----

(57) Abstract :

The present invention introduces a method for addressing the ecological challenges posed by nuisance aquatic plants in various ecosystems. It focuses on converting these invasive plants into a valuable resource by harvesting them strategically and transforming them into organic biofertilizers. The present invention relates to an organic ecofriendly biofertilizer composition produced from aquatic plants for enhanced plant growth. The process of the invention involves systematic harvesting, air-drying, shredding, and composting of aquatic plants, resulting in nutrient-rich biofertilizers. These biofertilizers prove effective in enhancing soil quality, promoting plant growth, and reducing germination periods. The composition's adaptability to different vegetable crops, with specific biofertilizer ratios and combinations, adds a versatile dimension to its application.

No. of Pages : 38 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311025720 A

(19) INDIA

(22) Date of filing of Application :05/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROLONG CYCLING STABILITY OF HARD CARBON-BASED ANODE DERIVED FROM ALMOND SHELL (PRUNUS DULCIS) BIOWASTE FOR SODIUM-ION BATTERIES

(51) International classification :B82Y30/00, B82Y40/00, C01B31/02, C01B32/05, C01B32/205

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Banaras Hindu University, Varanasi-221005, UP, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dipika Meghnani

Address of Applicant :Department of Physics, Banaras Hindu University, Varanasi- 221005, UP, India Varanasi -----

2)Rajendra Kumar Singh

Address of Applicant :Department of Physics, Banaras Hindu University, Varanasi- 221005, UP, India Varanasi -----

(57) Abstract :

Sodium-ion batteries due to its low cost and high abundance have gained widespread attention for energy storage devices carbonaceous hard carbons are the most promising anode material for sodium-ion batteries. Among them, recently, biomass waste derived hard carbon have aroused significant interest as anode material for sodium-ion batteries as biomass is a sustainable precursor, cost effective and available easily. The present invention discloses a new type of biomass precursor almond shell was used to prepare the set of hard carbon (AMS@600°C, AMS@800°C and AMS@1000°C) by simple calcination carbonization method. The almond shell derived hard carbon holds amorphous structure, large BET surface area and high structural defect verified by XRD, N₂-sorption (adsorption-desorption) isotherm and Raman analysis. Furthermore, The sodium-ion batteries built up with AMS@1000°C hard carbon as anode manifest an attractive performance such as large surface BET surface, high initial discharge capacity (204 mAh/g at 20 mA/g) and prolong cycling stability (upto 3000 Cycles) with better rate performance (54 mAh/g at 500 mA/g).

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311067373 A

(19) INDIA

(22) Date of filing of Application :07/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : FIELD AND LABORATORY APPARATUS FOR EVALUATING ACID RESISTANCE OF CONCRETE SAMPLES AND METHOD THEREOF

(51) International classification :C04B111/23
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)Dr. B R Ambedkar National Institute of Technology,
Jalandhar**

Address of Applicant :G.T. Road, Barnala, Amritsar Bye Pass,
Jalandhar, Punjab- 144008 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Nitin Ankur

Address of Applicant :G.T. Road, Barnala, Amritsar Bye Pass,
Jalandhar Punjab Jalandhar -----

2)Dr. Navdeep Singh

Address of Applicant :G.T. Road, Barnala, Amritsar Bye Pass,
Jalandhar, Punjab-144008 Jalandhar -----

(57) Abstract :

FIELD AND LABORATORY APPARATUS FOR EVALUATING ACID RESISTANCE OF CONCRETE SAMPLES AND METHOD THEREOF ABSTRACT The present invention relates to field and laboratory apparatus for evaluating acid resistance of concrete that includes a high-density polyethylene (HDPE) tank (101) having inside it a high-density polyethylene (HDPE) plate (103). Further, HDPE tank (101) includes Polyvinyl chloride (PVC) platform (105), acid inlet (107), water inlet (109), stirrer (111), outlet valve (113), stand (115), and tires (117). The HDPE plate (103) has pre-defined inclination that provides easy acid-based slush from the HDPE tank (101). The acid-based slush is removed from HDPE tank (101) through opening of the outlet valve (113). Due to this, field and laboratory apparatus offers a comprehensive advantage of eliminating requirement of taking out of the concrete samples (102) as present in HDPE tank (101) for which acid attack resistance is to be evaluated. FIGURE 1(a)

No. of Pages : 27 No. of Claims : 11

(54) Title of the invention : MUCOADHESIVE PATCH AND ITS METHOD OF PREPARATION

(51) International classification :A61K0009000000, A61K0009700000, A61K0047320000, A61K0047100000, A61K0047360000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)INDERPRASTHA DENTAL COLLEGE & HOSPITAL
 Address of Applicant :46/1, SITE IV, INDUSTRIAL AREA, SAHIBABAD, GHAZIABAD, UTTAR PRADESH-201010, INDIA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR. RAHUL PAUL
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

2)DR. DEEPTI YADAV
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

3)DR. GEETA PAUL
 Address of Applicant :DEPT. PROSTHODONTICS AND CROWN & BRIDGE, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

4)DR. VANDANA GULIA
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

5)DR. MUDITA GUPTA
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

6)DR. ISH KUMAR SHARMA
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

7)DR. SAKSHI BABRA
 Address of Applicant :DEPT. OF ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

8)DR. SONAM KHURANA
 Address of Applicant :DEPT. OF PHARMACOLOGY, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

9)DR. MANISH BHALLA
 Address of Applicant :DEPT. PEDIATRIC AND PREVENTIVE DENTISTRY, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

10)DR. PREETI UPADHYAY
 Address of Applicant :DEPT. OF PERIODONTOLOGY,INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

11)DR. AKASH SACHDEVA
 Address of Applicant :DEPT. OF ORAL & MAXILLOFACIAL SURGERY, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

12)DR. MAYURA PAUL
 Address of Applicant :DEPT. OF ORAL PATHOLOGY AND MICROBIOLOGY, INDERPRASTHA DENTAL COLLEGE & HOSPITAL, 46/1 SITE IV, INDUSTRIAL AREA, SAHIBABAD -----

(57) Abstract :
 ABSTRACT MUCOADHESIVE PATCH AND ITS METHOD OF PREPARATION The present invention relates to a benzocaine, meloxicam and diciofenac based mucoadhesive patch to relieve pain caused by 5 elastomeric separators and its method of preparation. The patch has additional flavoring agent in the patch and no adhesive backing layer is used in the patch.

No. of Pages : 18 No. of Claims : 5

(54) Title of the invention : PROCESS FOR SYNTHESIS OF SUBSTITUTED QUATERNARYPYRIDINES

(51) International classification :A61K31/44, C07D213/16, C07F9/58, C07F9/59, C07H19/048

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RAKHI MISHRA

Address of Applicant :DR. RAKHI MISHRA, NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE), KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 -----

2)DR. RUPA MAZUMDER**3)DR. AVIJIT MAZUMDER****4)MS. SHIVANI TYAGI****5)MRS. SHRUTI VARSHNEY****6)DR.PREM SHANKAR MISHRA****7)DR. SNIGDHA BHARDWAJ**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RAKHI MISHRA

Address of Applicant :DR. RAKHI MISHRA, NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE), KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 -----

2)DR. RUPA MAZUMDER

Address of Applicant :NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE) , KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 GREATER NOIDA -----

3)DR. AVIJIT MAZUMDER

Address of Applicant :NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE) , KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 GREATER NOIDA -----

4)MS. SHIVANI TYAGI

Address of Applicant :NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE), KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 GREATER NOIDA -----

5)MRS. SHRUTI VARSHNEY

Address of Applicant :NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE) , KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 GREATER NOIDA -----

6)DR.PREM SHANKAR MISHRA

Address of Applicant :DEPARTMENT OF PHARMACY, SCHOOL OF MEDICAL AND ALLIED SCIENCE, GALGOTIAS UNIVERSITY, PLOT NO. 2, YAMUNA EXPY, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH, 203201 GREATER NOIDA -----

7)DR. SNIGDHA BHARDWAJ

Address of Applicant :NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE) , KNOWLEDGE PARK II, PLOT 19, GREATER NOIDA, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :

PROCESS FOR SYNTHESIS OF SUBSTITUTED QUATERNARY PYRIDINES The present invention discloses process for synthesis of Substituted Quaternary Pyridines 5 (i-x), said process includes mixing 2 gm of nicotinic acid with 9.3 mL of NH₃ solution (2) to prepare nicotinamide (3); dissolving 0.244 gm of Nicotinamide (3) and 2 mmol of substituted bromo acetophenone in 50 mL of acetone to form a mixture; mixing the mixture on a magnetic stirrer for 3-4 hours at 70 °C and for another 24 hours at room temperature; adding ethanol to the stirred mixture, wherein the stirred mixture is left undisturbed to progress reaction for precipitation, wherein the reaction progress is monitored by thin layer chromatography (TLC) with mixture of chloroform and methanol; filtering off and recrystallizing crude products 4 (i-x) from the methanol; adding 0.90 mL of POCl₃ dropwise to 3mL N, N-dimethylformamide (DMF) to form Vilsmeier-Haack (VH)-reagent; and adding the crude products (4) (i-x) to the VH-reagent to synthesize Substituted Quaternary Pyridines 5 (i-x) via Vilsmeier-Haack Reaction.

No. of Pages : 30 No. of Claims : 10

(54) Title of the invention : UTILIZATION OF RICE HUSK AND LIME IN VARYING PROPORTION TO ENHANCE THE PROPERTIES OF RIGID PAVEMENT

(51) International classification	:C04B18/24, C04B28/18
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

2)DR. PARVEEN BERWAL

3)SHIVAM

4)PRAVEEN KUMAR SINGH

5)ARUN PATEL

6)ANSHUL

7)RITU SINGH

8)PRINCE PAL

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :

1)DR. PARVEEN BERWAL
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

2)SHIVAM
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

3)PRAVEEN KUMAR SINGH
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

4)ARUN PATEL
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

5)ANSHUL
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

6)RITU SINGH
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

7)PRINCE PAL
 Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----

(57) Abstract :
 UTILIZATION OF RICE HUSK AND LIME IN VARYING PROPORTION TO ENHANCE THE PROPERTIES OF RIGID PAVEMENT Abstract The study discloses a concrete composition specifically designed for rigid pavement applications, featuring a unique blend of rice husk and lime combined with standard concrete materials. The composition includes a first mixture where rice husk is incorporated in proportions ranging from 5% to 10% by weight of the total composition, introducing organic and sustainable material into the concrete matrix. Additionally, lime is added in a proportion of 5% to 15% by weight, contributing to the mixture's overall strength and durability. The second mixture comprises conventional concrete components such as cement, sand, and aggregates, forming the base of the concrete structure. The incorporation of rice husk and lime improves various aspects of the concrete, including compressive strength, flexibility, and longevity, making said composition particularly suitable for high-load and high-traffic applications in pavement construction. Fig. 1

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311088536 A

(19) INDIA

(22) Date of filing of Application :24/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SUSTAINABILITY OF RIGID PAVEMENTS BY APPLICATION OF JUTE FIBRE AND PLASTIC FIBRE IN VARYING PROPORTION

<p>(51) International classification :C04B16/06, C04B18/24, C04B20/00</p> <p>(86) International Application No Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA</p> <p>(62) Divisional to Application Number Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)DR. PARVEEN BERWAL</p> <p>3)GANESH GUPTA</p> <p>4)GAURAV YADAV</p> <p>5)AYUSH KUMAR</p> <p>6)HARIKESH</p> <p>7)ASHISH OJHA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. PARVEEN BERWAL Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)GANESH GUPTA Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>3)GAURAV YADAV Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>4)AYUSH KUMAR Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>5)HARIKESH Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>6)ASHISH OJHA Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p>
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(57) Abstract :
 SUSTAINABILITY OF RIGID PAVEMENTS BY APPLICATION OF JUTE FIBRE AND PLASTIC FIBRE IN VARYING PROPORTION Abstract The present disclosure relates to a concrete composition designed for rigid pavement, incorporating an environmentally sustainable approach. The composition comprises a mixture of standard concrete materials, including cement, sand, and aggregates, which form the foundational matrix of the concrete. Enhancing the base, jute fibres are added in a proportion ranging from 1.0% to 1.5% by weight of the total composition. In parallel, plastic fibres of 50 mm length are also incorporated in similar proportions, ranging from 1.0% to 1.5% by weight. The synergistic combination of said fibres with traditional concrete materials results in a robust, durable, and eco-friendly pavement solution, offering enhanced performance for a variety of infrastructure applications. Fig. 1

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311056094 A

(19) INDIA

(22) Date of filing of Application :22/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A NOVEL CATALYST FOR HYDROGENOLYSIS OF SUCROSE TO GLYCEROL AND METHOD OF PREPARATION

(51) International classification :F01N0003200000, B01J0023755000, C07C0029600000, C10G0011050000, C07C0029141000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)PROF (DR.) TANUJA SRIVASTAVA

Address of Applicant :Director, Bhai Gurdas Institute of Engineering and Technology, Main Patiala Road Sangrur Punjab-148002, INDIA Contact No. 9814847492 Email id- tanusriva@yahoo.co.in Sangrur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PROF (DR.) TANUJA SRIVASTAVA

Address of Applicant :Director, Bhai Gurdas Institute of Engineering and Technology, Main Patiala Road Sangrur Punjab-148002, INDIA Contact No. 9814847492 Email id- tanusriva@yahoo.co.in Sangrur -----

(57) Abstract :

ABSTRACT A NOVEL CATALYST FOR HYDROGENOLYSIS OF SUCROSE TO GLYCEROL AND METHOD OF PREPARATION Present invention discloses a Nickel (Ni) catalyst promoted by Rubidium (Rb) and Copper (Cu) supported on Kieselguhr support for hydrogenolysis of sucrose to produce higher yields of glycerol. The catalyst is prepared by precipitating 29.80% Nickel (Ni), 10.0% Rubidium (Rb) and 1.07% Copper (Cu) on Kieselguhr support by rotating vacuum evaporator, reducing the catalyst by heating 5g of catalyst sample in reactor at 600oC for 2 hours by continuous addition of hydrogen and finally preparing pellets of the catalyst by pressing and applying polymer coating over the surface of the catalyst to prevent the oxidation of the same. Further, For sucrose hydrogenolysis, about 14.46% aqueous sucrose solution is reacted with hydrogen gas at 49.57 atomic pressure and 178.92oC temperature in the presence of about 14.35% (Ni, Rb & Cu)/Kieselguhr catalyst in a reactor for about 240 minutes to yield higher yield i.e., 56.24% of glycerol.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311065399 A

(19) INDIA

(22) Date of filing of Application :28/09/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : TRANSITION-METAL OXIDES-DOPED GLASS NANOCOMPOSITES COMPOSITION FOR A NON-ENZYMATIC GLUCOSE SENSOR AND ITS PREPARATION PROCESS THEREOF

<p>(51) International classification :H01M0010052500, H01M0004525000, A61P0043000000, H01M0004505000, C03C0003087000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GLA University, Mathura Address of Applicant :GLA University, Mathura, 17 km Stone, NH-2, Mathura-Delhi Road Mathura, Chaumuhan, Uttar Pradesh 281406, India Mathura -----</p> <p>2)National Institute of Technology Manipur Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Dipankar Biswas Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Institute of Engineering and Technology, GLA University, Mathura, UP 281406, India Mathura -----</p> <p>2)Dr. Loitongbam Surajkumar Singh Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, National Institute of Technology Manipur, Langol, Imphal – 795004. Imphal -----</p> <p>3)Dr. Sonjoy Mondal Address of Applicant :Assistant Professor, Department of Physics Sidho-Kanho-Birsha University, P.O.: Sainik School, Ranchi Road, Dist.: Purulia, PIN-7312104, West Bengal, INDIA Purulia -----</p> <p>4)Mr. Arpan Mandal Address of Applicant :Assistant Professor, Mechanical Engineering Department, Regent Education and Research Foundation. Bara Kanthalia, Barrackpore. PO: Sewli Telini Para. Dist: North 24 Pargana, Kolkata - 700121. West Bengal, India North 24 Pargana -----</p> <p>5)Mr. Debtanu Patra Address of Applicant :Assistant Professor, Mechanical Engineering Department, Regent Education and Research Foundation. Bara Kanthalia, Barrackpore. PO: Sewli Telini Para, Dist: North 24 Pargana, Kolkata - 700121. West Bengal, India North 24 Pargana -----</p> <p>6)Mr. Souvik Brahma Hota Address of Applicant :Faculty, Department of Mechanical Engineering, Techno India University, West Bengal, EM-4, EM Block, Sector V, Bidhannagar, Kolkata, West Bengal 700091 North 24 Pargana - -----</p> <p>7)Dr. Rahul Kanti Nath Address of Applicant :Assistant Professor, Mechanical Engineering Department, Regent Education and Research Foundation. Bara Kanthalia, Barrackpore, PO: Sewli Telini Para, Dist: North 24 Pargana, Kolkata - 700121. West Bengal, India North 24 Pargana -----</p> <p>8)Mrs. Debarati Ghosh Address of Applicant :Burdwan University, Burdwan 713104, West Bengal, India Bardhaman -----</p>
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(57) Abstract :
 The present invention generally relates to a process for preparing transition metal oxides doped glass nanocomposites for a non-enzymatic glucose sensor comprises of mixing 85-95 wt% of glass sample, 3-7 wt% of activated carbon, and 3-7 wt% of polyvinylidene fluoride in 1-20 wt% of acetone to form a mixture; ultra-sonicating the mixture for 20 mins; stirring the mixture continuously at a temperature of 80 °C for 8 h to form a homogeneous slurry; and coating the homogeneous slurry onto a graphite sheet and vacuum-drying in an oven for 12 h.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311081167 A

(19) INDIA

(22) Date of filing of Application :29/11/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : MISSENSE MUTATION OF ISLET AMYLOID POLYPEPTIDE IN DROSOPHILA MODEL

(51) International classification :C12Q0001688300, A61P0003100000, A01K0067033000, C12N0015850000, C07D0403120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Varanasi- 221005, UP, India Varanasi --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. MADHU G. TAPADIA

Address of Applicant :Cytogenetics Laboratory, Department of Zoology, Institute of Science, Banaras Hindu University, Varanasi-India Varanasi -----

2)DR. KHUSHBOO SHARMA

Address of Applicant :Cytogenetics laboratory, Department OF Zoology, Institute of Science, Banaras Hindu University. Varanasi

3)DR. POOJA RAI

Address of Applicant :Cytogenetics laboratory, Department of Zoology, Institute of Science, Banaras Hindu University. Varanasi

(57) Abstract :

The present invention is related to the Transgenic Drosophila model for mutant Islet amyloid polypeptide and the method for the preparation of the same, and more particularly the missense mutation where S20G (serine to glycine) mutation at 20th position of 37 amino acid residue of Islet amyloid polypeptide/Amylin. The change in the amino acid residue predisposes the diabetic individuals to amyloidogenesis. This change makes young diabetic individuals prone to islet amyloid aggregations. Drosophila transgenic UAS line expressing S20G mutation exhibits a strong phenotype and can be used as a tool for screening amyloidogenicity related to type 2 diabetes. It is a quick and cost-effective method to determine the pathophysiology of this disease, Additionally, it can be used as a preclinical testing model from a pharmaceutical perspective. It can be used to study human genetic mutations and pathways and for the discovery of new functional genes and associated diseases.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411005973 A

(19) INDIA

(22) Date of filing of Application :30/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SMART SOLID-STATE RELAY LIMITING THE INRUSH CURRENT

(51) International classification :H02M0001360000, H02H0009000000, G06F0001260000, F03D0009250000, G06F0001328700

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Address of Applicant :Roorkee Roorkee -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)DR. VISHAL SHIVAJI UNDRE
Address of Applicant :Department of Water Resources
Development and Management, Indian Institute of Technology
Roorkee, Roorkee- 247667, Uttarakhand Roorkee -----

2)DR. VIJAY PANDURANG MOHALE
Address of Applicant :Department of Water Resources
Development and Management, Indian Institute of Technology
Roorkee, Roorkee- 247667, Uttarakhand Roorkee -----

3)MR. PERWEZ ALAM
Address of Applicant :Department of Water Resources
Development and Management, Indian Institute of Technology
Roorkee, Roorkee- 247667, Uttarakhand Roorkee -----

4)PROF. SONAL KESHAWRAO THENGANE
Address of Applicant :Department of Hydro and Renewable
Energy, Indian Institute of Technology Roorkee, Roorkee- 247667
Roorkee -----
5)PROF. THANGA RAJ CHELLIAH
Address of Applicant :Department of Water Resources
Development and Management, Indian Institute of Technology
Roorkee, Roorkee- 247667, Uttarakhand Roorkee -----

(57) Abstract :

The present invention relates to a smart solid-state relay limiting the inrush current. The proposed method in this invention reduces the inrush current without an external circuit. The relay acts as a traditional relay to turn on and turn off the power supply and in addition to it, during start-up, it can change the rise time of the current. Published with Figure 1

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311088537 A

(19) INDIA

(22) Date of filing of Application :24/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : IOT BASED MEDICATION DISPENSING MACHINE FOR HEALTHCARE ENHANCEMENT

<p>(51) International classification :G16H0020130000, A61J0007040000, G16H0010600000, G16H0015000000, A61J0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)DR. PINKI YADAV</p> <p>3)DR.BHUVNESH</p> <p>4)DR. MD. DANISH EQUBAL</p> <p>5)ADITYA SAGAR</p> <p>6)AKASH YADAV</p> <p>7)ANKIT YADAV</p> <p>8)KESHANT</p> <p>9)PARVEEN BERWAL</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. PINKI YADAV Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)DR.BHUVNESH Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>3)DR. MD. DANISH EQUBAL Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>4)ADITYA SAGAR Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>5)AKASH YADAV Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>6)ANKIT YADAV Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>7)KESHANT Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>8)PARVEEN BERWAL Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p>
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(57) Abstract :
IoT Based Medication Dispensing Machine for Healthcare Enhancement Abstract The present disclosure introduces an advanced medication dispensing system that integrates a variety of technologies to enhance the efficiency, accuracy, and accessibility of pharmaceutical distribution. The system is driven by an Internet of Things (IoT) platform, which coordinates all functional operations. A user-interactive digital interface, connected to the IoT platform, receives and processes on-time medication dispensing commands. To ensure secure access and maintain patient privacy, an Aadhar card verification module is interfaced with the IoT platform, enabling user identity validation and medication history review. The system also features a user-friendly display, showcasing disease symbols for intuitive navigation and selection. Moreover, a sophisticated voice processor is designed for verbal disease verification and interactive communication with users, adding a layer of verification before dispensing medication. Fig. 1

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311088538 A

(19) INDIA

(22) Date of filing of Application :24/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SEARCH AND LOCATE MISSING INDIVIDUALS VIA DRONE

<p>(51) International classification :B64C0039020000, G05D0001100000, G05D0001000000, G05D0001120000, G08B0021020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)MR.THAKUR KUMAR ANKIT</p> <p>3)DR. PINKI YADAV</p> <p>4)DR. MD. DANISH EQUBAL</p> <p>5)SUDHIR GUPTA</p> <p>6)GULJAR ANSARI</p> <p>7)NISHIT SOLANKI</p> <p>8)SOHIL KHAN</p> <p>9)PARVEEN BERWAL</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)MR.THAKUR KUMAR ANKIT Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>2)DR. PINKI YADAV Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>3)DR. MD. DANISH EQUBAL Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>4)SUDHIR GUPTA Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>5)GULJAR ANSARI Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>6)NISHIT SOLANKI Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>7)SOHIL KHAN Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p> <p>8)PARVEEN BERWAL Address of Applicant :GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY, KNOWLEDGE PARK PHASE II, GREATER NOIDA, UTTAR PRADESH , PIN- 201306 GREATER NOIDA -----</p>
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(57) Abstract :

Search and Locate Missing Individuals via drone Abstract The present disclosure presents a disaster response drone system designed for effective search, rescue, and relief operations. The system integrates a robust quadcopter frame with a high-quality flight controller that ensures stability and supports significant payload capacities. A sophisticated GPS and navigation system for precise location tracking and efficient path planning. The drone features a payload management mechanism equipped with sensors, enabling the handling of various payloads essential for disaster response. Further, the integration of a first-person view (FPV) camera with an OpenCV system, providing advanced navigation and high-resolution image processing. Additionally, a 3D mapping module is used to create detailed maps of affected areas. The system includes a thermal imaging camera for identifying heat signatures and an AI framework. A communication system interfaces with the flight controller, maintaining crucial contact with response teams. Fig. 1

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007451 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-BASED SYSTEM FOR EMOTIONAL RECOGNITION

(51) International classification :A61B0005000000, A61B0005160000, A61B0005024000, G16H0050200000, G10L0025630000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Maharaja Agrasen Institute of Technology

Address of Applicant :PSP Area, Maharaja Agrasen Chowk Sector 22, Rohini, Delhi, India - 110086 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sachin Gupta

Address of Applicant :Professor, Department of CSE, MAIT, Rohini, New Delhi -----

2)Dr. Bhoomi Gupta

Address of Applicant :Associate Professor, Department of IT, MAIT, Rohini, New Delhi -----

(57) Abstract :

The present invention relates to provide an artificial intelligence-based System for Emotional Recognition. The system, comprising the Neuro-fusion Symphony, it transcends facial expressions and voice analysis, incorporating biofeedback sensors for heart rate, skin conductance, and brain activity, creating a comprehensive physiological dataset for nuanced emotional insights. The Contextual Maestro factorizes environmental cues, conversation flow, and user history to enhance emotion interpretation accuracy. The Empathy Engine goes beyond mere recognition, understanding the emotional impact on users and delivering tailored responses. Through Adaptive Learning, the system evolves, becoming proficient in understanding individual emotional languages. Serving as a Mental Wellness Guardian, it identifies early signs of mental health issues. Enabling Enhanced Human-Machine Interaction, it facilitates empathetic AI companionship and offers revolutionary possibilities in education by tailoring teaching methods to students' emotional states, thereby maximizing engagement and learning outcomes.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311057323 A

(19) INDIA

(22) Date of filing of Application :26/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A MULTINUCLEUS FOR STORAGE OF HONEY BEE QUEENS

(51) International classification :A01K0047060000, A01K0047020000, A01K0049000000, A01K0047040000, A61K0036185000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Banaras Hindu University, Varanasi-221005, U.P, India Varanasi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amandeep Singh

Address of Applicant :Khalsa College Garhdiwala, Hoshiarpur, Punjab Hoshiarpur -----

2)Ashun Chaudhary

Address of Applicant :Department of Plant Sciences, School of Life Sciences, Central University of Himachal Pradesh, Tab Shahpur, Kangra, Himachal Pradesh-176206 Kangra -----

3)Randeep Singh

Address of Applicant :Khalsa College Amritsar, Punjab Hoshiarpur -----

4)Abhinay Thakur

Address of Applicant :Department of Zoology, DAV College Jalandhar, Punjab -144008 Jalandhar -----

5)Rohit Sharma

Address of Applicant :Department of Rasa Shastra & Bhaishajya Kalpana, Faculty of Ayurveda, Institute of medical sciences, Banaras Hindu University, Varanasi- 221005, Uttar Pradesh, India Varanasi -----

6)Pradeep Kumar Prajapati

Address of Applicant :Department of Rasashastra and Bhaishajya Kalpana, All India Institute of Ayurveda, New Delhi - 110076, India Delhi -----

(57) Abstract :

A MULTINUCLEUS FOR STORAGE OF HONEY BEE QUEEN ABSTRACT The present invention is a multinucleus instrument for the storage of honey bee queens that allows the storage of twenty, forty and sixty or more than sixty mated queens under natural working conditions. The multinucleus is an instrument which comprises two sections which includes the base of multinucleus and ten rows (single, double, tri and poly nucleus) having two frame bee hive that can be connected and disconnected with the base of multinucleus and can also be used as a packing box through proper packing during transportation of queens with their worker bees after disconnect from base. The double queen excluder of multinucleus can also be used in traditional or standard Newton's beehive for stored surplus mated queens under natural working conditions after minor modifications in the hive (groove formation for double queen excluder).

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311057324 A

(19) INDIA

(22) Date of filing of Application :26/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : MILK PROTEIN AND ALOE VERA-BASED COMPOSITE ANTACID TABLET

(51) International classification :A23J1/20, A23J3/10, A23P10/28, A61K36/886, A61K47/02, A61K9/00, A61P1/04

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Banaras Hindu University
 Address of Applicant :Varanasi, Uttar Pradesh-221005, India
 Varanasi -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Ruchi Chawla
 Address of Applicant :Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi-221005, UP. Varanasi -----
2)Krishan Kumar
 Address of Applicant :Department of Pharmaceutical Engineering & Technology, Indian Institute of Technology, Banaras Hindu University, Varanasi-221005, UP. Varanasi -----
3)Ridhi Pandey
 Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, UP. Varanasi -----
4)Raj Kumar Duary
 Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, UP. Varanasi -----
5)Dinesh Chandra Rai
 Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, UP Varanasi -----
6)Arvind
 Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, UP. Varanasi -----

(57) Abstract :
 The present invention discloses milk protein and aloe vera-based composite antacid tablets. More specifically the present invention discloses a formulation and its method of preparation wherein, aloe vera and milk protein namely casein and whey protein used as an ingredient, starch as a binder, mannitol as a filler, and magnesium stearate as a lubricating agent, utilizing buffering capacity of milk protein and antacid property of aloe vera and employing through the process of wet granulation method to form the composite antacid tablet. The composite antacid tablet treats and prevents gastritis, and the inclusion of whey protein concentrate and aloe vera in the formulation enhances the tablet's buffering and anti-ulcerative properties, which grants a competitive advantage over commercially available antacids that are often linked to adverse effects.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311061077 A

(19) INDIA

(22) Date of filing of Application :11/09/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN AUTOMATED IRRIGATION SYSTEM FOR HIGH DENSITY APPLE ORCHARDS

(51) International classification : Y02E10/40, A01G25/16, G01K1/14, G01N33/24, G05B19/042, G06D7/06, G08G21/18, H04W4/38

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND TECHNOLOGY OF KASHMIR

Address of Applicant :SKUAST-K Shalimar, Srinagar, Jammu & Kashmir, India,190025 Srinager -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Er Riyaz Ashraf

Address of Applicant :Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Shalimar, Srinagar-190025, J&K, India. Srinager -----

2)Prof Rohitashw Kumar

Address of Applicant :Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Shalimar, Srinagar-190025, J&K, India. Srinager -----

3)Prof Nazir Ahmad Ganaie

Address of Applicant :Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), Shalimar, Srinagar-190025, J&K, India. Srinager -----

(57) Abstract :

A system (100) for an automated irrigating an apple orchard, the system (100) comprising: a memory (102); a processor (104); a control module (106) coupled to the processor (104), configured to monitor dripping and soil moisture in the apple orchard; a water pump (108) coupled to the control module (106), configured to supply water required to maintain moisture in the apple orchard; wherein the control module (106) is configured to supply water via a mainline (110) by controlling the water pump (108); and a solar panel (112) coupled to the control module (106), configured to supply power for running the system (100). Further, the control module (106) is configured to communicate information from the plurality of dipper (116) and the plurality of soil sensors (118) to a display unit (120) and a user device (122).

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008040 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR NETWORK THREAT DETECTION IN NETWORK TOPOLOGIES

(51) International classification :G06N0020000000, G06F0021550000, G06F0021570000, G06N0003080000, G06F0021560000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)MISHRA, Saket
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)PANDEY, Sakshi
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)SHARMA, Lakshay
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The system (100) integrates distributed sensor networks, packet analysis, and a machine learning model (108) to create a robust threat detection framework. Distributed sensors strategically placed across multi-tier network topologies continuously capture and monitor network behavior. The packet analysis module (106) conducts deep inspections of data packets, identifying anomalies and potential threats. The machine learning model (108), comprising dual layers, classifies threats by recognizing existing attack vectors and identifying new ones. The innovative approach enhances the system's (100) adaptability to evolving threats. The integration of the components enables real-time detection, classification, and response to potential security incidents, providing a dynamic and proactive defense against a spectrum of cyber threats in complex network environments. The collaboration of machine-driven analytics and human security expertise further ensures a comprehensive cybersecurity strategy.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311089563 A

(19) INDIA

(22) Date of filing of Application :29/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : BLOCKCHAIN BASED SECURE DATA MANAGEMENT SYSTEM FOR INTERNET OF THINGS (IOT) DEVICE

<p>(51) International classification :H04L0009320000, G06F0021620000, G06F0021600000, H04L0009060000, G06N0020000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Manoj Kumar Address of Applicant :Associate Professor, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>2)Mr. Ankit Kumar</p> <p>3)Dr. Shashiraj Teotia</p> <p>4)Mr. Ranjeet Singh</p> <p>5)Mr. Sanjeev Panwar</p> <p>6)Mohd. Salman Siddique</p> <p>7)Dr. Brijesh Kumar Sharma</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Manoj Kumar Address of Applicant :Associate Professor, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>2)Mr. Ankit Kumar Address of Applicant :Assistant Professor, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>3)Dr. Shashiraj Teotia Address of Applicant :Associate Professor, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>4)Mr. Ranjeet Singh Address of Applicant :Lecturer, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>5)Mr. Sanjeev Panwar Address of Applicant :Assistant Professor, Department of Computer Application, Swami Vivekanand Subharti University, Meerut, Uttar Pradesh, India - 250005 -----</p> <p>6)Mohd. Salman Siddique Address of Applicant :Assistant Professor, Department of CSE, Kothiwal Institute of Technology & Professional Studies, Moradabad, Uttar Pradesh, India -----</p> <p>7)Dr. Brijesh Kumar Sharma Address of Applicant :Assistant Professor, Department of Computer Application, SRMIST, NCR Campus, Modinagar Ghaziabad, Uttar Pradesh, India -----</p>
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(57) Abstract :

The present invention relates to provide a Blockchain based secure Data Management System for Internet of Things (IoT) Device. Further, the present invention presents a groundbreaking Blockchain-based Secure Data Management System for IoT devices, transforming the IoT landscape into a secure fortress. Its key features include Immutable Trust through a robust blockchain, granting devices individual identities for self-management, Granular Permissions via smart contracts, Data Provenance for transparent ownership tracking, a Privacy Oasis with encrypted off-chain storage, and Federated Learning for collaborative model training. The system ensures scalability, adaptability, and unprecedented user control, revolutionizing industries. It uniquely focuses on user and device empowerment, introduces novel concepts like federated learning, and vividly emphasizes transformative potential across diverse sectors.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411002129 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOW CALORIE INSTANT PHALAHARI GULAB JAMUN BALLS

(51) International classification :G16H0050300000, A23L0033000000, A61B0005000000, A23L0033170000, A23L0033160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Banaras Hindu University

Address of Applicant :Varanasi, Uttar Pradesh 221005, India
Varanasi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. SHUBHAM JAYSURYA

Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh Varanasi -----

2)Dr. ARVIND

Address of Applicant :Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh Varanasi -----

3)Dr. Tarun Verma

Address of Applicant :Dr. Tarun Verma Department of Dairy Science and Food Technology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, Uttar Pradesh Varanasi -----

(57) Abstract :

The present invention discloses low calorine instant phalahari gulab jamun balls. More specifically, the present invention provides composition and method of preparation of Gulab jamun balls which are made of ingredients used in Phalahar vrat meals which includes roller-dried SMP, water chestnut flour, and desi ghee to develop value-added Phalahari. The baked gulab jamun balls dipped in sugar syrup to make ready-to-eat Phalahari gulab jamun, in 5-10 minutes. The pahalari gulab jamun provides with reduced fat content, high nutrient content, as source of protein, promotes digestive health, being gluten-free, having a lower glycemic index, reduced added sugar, antioxidant properties for heart health, diabetes-friendly, nutritional balance, providing an energy boost, supporting bone health, enhancing flavor, enabling portion control, ensuring safety, aiding muscle recovery, promoting hydration, and being delightful

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007371 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM FOR BATTERY SELF-HEATING BASED ON AUTOMOTIVE TRACTION MOTOR AND A METHOD THEREOF

(51) International classification :B60H1/00, B60L53/20, B60L58/27, H01M10/615, H01M10/625, H02J7/00, H02M7/521, H02M7/527

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology, Mandi

Address of Applicant :IP & TT Cell, SRIC Office, IIT Mandi, Kamand, Himachal Pradesh 175005, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ramana Manohar Reddy

Address of Applicant :SCEE, IIT Mandi, Himachal Pradesh - 175005, India -----

2)Moumita Das

Address of Applicant :SCEE, IIT Mandi, Himachal Pradesh - 175005, India -----

(57) Abstract :

ABSTRACT SYSTEM FOR BATTERY SELF-HEATING BASED ON AUTOMOTIVE TRACTION MOTOR AND A METHOD THEREOF Embodiments disclose a method and a system for battery pack self-heating based on automotive traction motor reconfiguration. In the battery pack temperature control, firstly the controller will get turned ON by making the vehicle ON. Secondly, the temperature sensor will measure/monitor battery pack temperature and sent it to the controller and is compared with the set threshold temperature. If the temperature is below the set value, then the controller enters into heating mode else into drive mode. When in the heating mode the battery temperature and associated electrical parameters like voltage and current are continuously monitored. However, if the monitored temperature in the heating mode is above the set value or a user wants to enter the drive mode directly even at a temperature below the set value, then the controller will change the mode from heating into drive mode making the converter operate in the power transfer mode. FIGURE 1, 4

No. of Pages : 25 No. of Claims : 15

(54) Title of the invention : INNOVATIVE GUI-BASED APPROACH FOR PREDICTING FLOW AND COMPRESSIVE STRENGTH IN HIGH-PERFORMANCE CONCRETE

(51) International classification :G06N0020000000, G06N0005040000, G06N0005020000, G16C0020700000, G16C0020300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Akash Chadha
 Address of Applicant :9/219 DDA Flats Madangir -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Rupesh Kumar Tipu
 Address of Applicant :Assistant Professor, Department of Civil Engineering, School of Engineering & Technology, K. R. Mangalam University, Gurugram, Haryana 122103, India Sohna -----

2)Suman
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, School of Engineering & Technology, K. R. Mangalam University, Gurugram, Haryana 122103, India Sohna -----

3)Prof. (Dr.) Sudhanshu Gaur
 Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, Guru Jambheshwar University of Science & Technology, Hisar Hisar -----

4)Prof. (Dr.) Vandna Batra
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, School of Engineering & Technology, K. R. Mangalam University, Gurugram, Haryana 122103, India Sohna -----

5)Ruchika
 Address of Applicant :Assistant Professor, Institute of Information Technology & Management, Janakpuri, Delhi Janakpuri -----

6)Prof. (Dr.) Ritu Sindhu
 Address of Applicant :Professor, Lingaya’s Vidyapeeth, Faridabad Faridabad -----

7)Prof. (Dr.) Aina Gupta
 Address of Applicant :Assistant Professor School of Basic and Applied Science (Mathematics), K.R. Mangalam University, Gurugram, Haryana 122103, India Sohna -----

8)Akash Chadha
 Address of Applicant :Web developer, K. R. Mangalam University, Gurugram, Haryana 122103, India Sohna -----

(57) Abstract :
 This invention presents a novel and integrated approach to the prediction of workability (flow) and compressive strength in high-performance concrete, leveraging the capabilities of machine learning and a user-friendly Graphical User Interface (GUI). The methodology involves a meticulously designed flowchart, as illustrated in Figure 1, encapsulating the systematic development process of the machine learning model. Beginning with the collection and preprocessing of concrete-related data, the flowchart delineates sequential steps, including feature selection, model training, and iterative refinement. This method ensures the creation of a precise and reliable predictive model, contributing to enhanced accuracy in the assessment of high-performance concrete properties. Complementing this, Figure 2 showcases a pivotal aspect of the invention – a GUI screenshot that embodies an intuitive interface facilitating user interaction. The GUI allows seamless input of data, initiation of predictions, and visualization of outcomes, democratizing access to advanced predictive modelling within the construction industry. This user-centric design bridges the gap between sophisticated algorithms and practical application, ensuring that professionals, regardless of their technical expertise, can easily engage with and benefit from the predictive model. The integrated system proposed herein aims to streamline construction processes by providing accurate predictions of workability and compressive strength. Beyond its immediate practical implications, the invention contributes to the broader landscape of construction technology innovation, setting a precedent for the efficient and sustainable integration of technology into industry practices. Through this inventive fusion of machine learning and user interface design, the invention not only addresses current challenges in concrete property prediction but also charts a course towards a more accessible, efficient, and informed future in the field of high-performance concrete construction.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007513 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IOT BASED SMART POS SYSTEM FOR RETAIL

(57) Abstract :

The IoT-based Smart PoS system revolutionizes retail operations by automating billing, advancing data classification through AI, and offering a streamlined online product listing experience. The inventive features, including automated billing, AI-driven data processing, and cloud-based retail visibility, redefine the retail landscape. Illustrated in accompanying drawings, the invention's detailed description demonstrates practical applications, encouraging further advancements in the intersection of AI and retail technology.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007516 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SELF-TIRE ALIGNMENT SYSTEM FOR VEHICLES

(51) International classification :G06Q0010060000, B60W0040060000, G08G0001096800, G03F0009000000, H04N0005232000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GRAPHIC ERA DEEMED TO BE UNIVERSITY

Address of Applicant :566/6, Bell Road, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India. Dehradun -----

2)GRAPHIC ERA HILL UNIVERSITY

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHANU

Address of Applicant :Department of Mechanical Engineering, Graphic Era Hill University, Dehradun. Dehradun -----

2)Dr. LALIT RANAKOTI

Address of Applicant :Department of Mechanical Engineering, Graphic Era Deemed to be University, Dehradun. Dehradun -----

(57) Abstract :

The invention discloses an advanced self-tire alignment system for vehicles, integrating precision sensors (10), actuators (20), and a control unit (30). This electro-mechanical system continuously monitors tire alignment parameters, calculates precise adjustments, and dynamically corrects alignment deviations. A user-friendly interface (40) enables convenient monitoring and scheduling, while the system's focus on extended tire lifespan and enhanced road safety marks a significant advancement in automotive maintenance technology. By proactively addressing misalignments and optimizing tire contact with the road surface, the invention promotes safer and more efficient driving experiences.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008041 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMIC PERSONALIZATION OF COMPUTER TERMINALS THROUGH TEMPORARY CUSTOMIZATION

(51) International classification :G06F0021320000, G06F0021310000, H04N0001000000, G06Q0050000000, H04R0005040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)VAIBHAV
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 The present disclosure pertains to a system (102) and a method (300) for dynamic personalization of computer terminals (104) through temporary customization. The system (102) comprises a user authentication unit (212) configured to authenticate the user while accessing the computer terminals (104) through a terminal interface (110). The system (102) comprises a user interface (108) configured to interact with the terminal interface (110) and customize one or more aspects and one or more configurations of the computer terminals (104) by the authenticated user. The system (102) comprises a storage unit (214) configure to store the user's customization and configurations during user's active session. The system (102) also comprises a configuration management unit (216) configured to manage the stored customization by linking the store customization with the current user session.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008042 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ADVANCED AUTHORIZATION MANAGEMENT

(51) International classification :G06F0021310000, G06F0021320000, H04W0012060000, H04L0051520000, G06F0016951000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)SINGH, Manpreet
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 The system (100) is an advanced authorization management solution leveraging psychometric data and adaptive mechanisms for heightened security and user experience. The system (100) discreetly gathers keystroke dynamics, facial recognition, voice patterns, and touch-screen interactions during regular user interactions with digital devices. The system (100) also dynamically establishes a baseline behavioral profile, learning and adapting to user typing styles and interactions with digital resources. It ensures real-time adjustment of access permissions based on the alignment of current behavior with the established baseline, minimizing the need for repeated authentication. Blockchain technology can be integrated for secure and tamper-resistant storage of behavioral data. The system (100) redefines authorization management by proactively identifying anomalies, providing seamless access, and prioritizing security in a privacy-conscious manner.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008121 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATED GENERATION OF SECURITY POLICIES

(51) International classification :G06N0020000000, G06F0021570000, G06F0021550000, G06F0021560000, H04L0051000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)SINGH, Manjot
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The system (100) of the present disclosure employs advanced threat intelligence analytics to identify and assess a diverse array of cybersecurity threats and vulnerabilities. Utilizing a machine learning model (106) with heuristic mechanisms, the system (100) dynamically analyzes risk factors, including malware, phishing attacks, and zero-day exploits, derived from cyber threat feeds and vulnerability databases and generates automated security policies (108). The method involves training the machine learning model (106) on historical security incidents, continually adapting to evolving threat landscapes. The system (100) assigns priority levels to identified threats and vulnerabilities based on risk analysis (104) and dynamically adjusts security configurations in real time. It addresses technical aspects such as the correlation of threats with compliance standards, adaptive access controls, and periodic updates to the machine learning model (106) for sustained effectiveness.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008407 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED TECHNIQUES TO IMPROVE THE COGNITIVE QUALITIES OF STUDENTS THROUGH PLAY

<p>(51) International classification :A61P0025280000, G06K0009620000, H04W0004029000, G06N0020000000, A61B0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MJP ROHILKHAND UNIVERSITY Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Gaurav Rao Address of Applicant :Associate Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----</p> <p>2)Dr. Neeraj Kumar Address of Applicant :Assistant Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----</p> <p>3)Prof. Vinay Rishiwal Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>4)Prof. Bhola Khan Address of Applicant :Professor, Dept. of Regional Economics, MJPRU, Bareilly, India Bareilly -----</p> <p>5)Dr. Brijesh Kumar Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p>
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(57) Abstract :

Artificial Intelligence based techniques to improve the cognitive qualities of students through play is the proposed invention. The proposed invention focuses on studying the correlation between the mental health of students and their physical activities. The invention focuses on analyzing the parameters of qualities of students through play using algorithms of Artificial Intelligence.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : SYSTEMATIC APPROACH INTEGRATED WITH MACHINE LEARNING MODELS TO STUDY THE IMPACT OF DIFFERENT LEARNING STYLES AS THE METHOD OF ADDRESSING INDIVIDUAL CHILD NEEDS

(51) International classification :G06N0020000000, G06K0009620000, G06Q0050200000, C12N0015100000, G09B0007040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Gaurav Rao
 Address of Applicant :Associate Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

2)Dr. Neeraj Kumar
 Address of Applicant :Assistant Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

3)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

4)Prof. Bhola Khan
 Address of Applicant :Professor, Dept. of Regional Economics, MJPRU, Bareilly, India Bareilly -----

5)Prof. Anil Singh
 Address of Applicant :Professor, Dept. of Electronic and Instrumentation, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 Systematic approach integrated with machine learning models to study the impact of different learning styles as the method of addressing individual child needs is the proposed invention. The proposed invention focuses on studying the various methods that are used to address the need of individual students. The invention focuses on analyzing the impact of different learning styles of child using algorithms of Systematic approach.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008440 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PORTABLE POINT OF SOURCE TESTING (POST) MULTIMODE OPTICAL DETECTION SYSTEM

(51) International classification :B01L0003000000, G01N0033490000, B01L0009000000, B01L0003020000, A61B0010000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

Address of Applicant :Vidya Vihar, Pilani, Rajasthan - 333031, India Pilani -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Goel Sanket

Address of Applicant :Department of EEE, BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet, Hyderabad, Telangana Pin:500078 India Hyderabad -----

2)Pavar Sai Kumar

Address of Applicant :BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet, Hyderabad, Telangana Pin:500078 India Hyderabad -----

(57) Abstract :

The Portable Point of Source Testing (PoST) Multimode Optical Detection system 100 for detection and analysis of body fluids. The System 100 have a control module 110, with a digital display unit 113, a camera module 120, a sampling chamber 130, a reagent reservoir assembly 140 with one or more reagent reservoirs 143, a plunger mechanism 150 and a plurality of sampling bowls/well plate readers. Can be used at the point of care location or near the patient conveniently for the analysis of the body fluids. Capable of using different optical detection methods and can share the results instantly to remote real time monitoring and diagnostics at convenient location with improved sensitivities, precision, speed, usability, and specificity levels. Figure 1.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008441 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGNING ENSEMBLED BASED AUTOMATED AND COMPREHENSIVE FRAMEWORK FOR SUPPLIER SELECTION AND EVALUATION PROCESS

(51) International classification :G06Q0010060000, G06Q0010080000, G16H0040200000, G06N0005000000, G06N0003020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr Sonu Dua
 Address of Applicant :H.NO-41, KASTURBA NAGAR, JALANDHAR CANT -----
2)Dr Sakshi Dua
3)Dr Pawanpreet Kaur
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr Sonu Dua
 Address of Applicant :Lyallpur Khalsa College Technical Campus Jalandhar -----
2)Dr Sakshi Dua
 Address of Applicant :Lovely Professional University Jalandhar -----
3)Dr Pawanpreet Kaur
 Address of Applicant :Lyallpur Khalsa College Technical Campus Jalandhar -----
4)Pushpa Hongal
 Address of Applicant :Kousali Institute of Management Studies Jalandhar -----
5)Veeranna S Hombalimath
 Address of Applicant :KLE Technological University, Hubballi Jalandhar -----
6)Gururaj Phatak
 Address of Applicant :Kirkoskar of Management Jalandhar -----
7)Dr Lovely Sharma
 Address of Applicant :Prem Chand Markanda S.D College for Women, Jalandhar Jalandhar -----
8)Dr Ashutosh Vyas
 Address of Applicant :Prestige Institute of Management and Research Dewas Jalandhar -----
9)Dr Megha Upadhyay
 Address of Applicant :International Institute of Management Studies Jalandhar -----
10)Ajay Kumar
 Address of Applicant :Student, MBA, Lyallpur Khalsa College Technical Campus Jalandhar -----
11)Sukhvir
 Address of Applicant :Student, MBA, Lyallpur Khalsa College Technical Campus Jalandhar -----

(57) Abstract :

In today's dynamic marketplace, selection of right suppliers is quite crucial phase in optimizing supply chain management. This invention discusses an automated supplier selection and evaluation system by leveraging Ensembled method to get efficient decision making process by firms. Current invention involves systematic flow which starts with collection of historical supplier data and yielding robust ensembled method. The process involves data preprocessing to handle any data related anomalies such as missing values to generating ensembled model using Decision Tree and Neural Network. To assess the performance of model evaluation metrics such as accuracy, precision, recall and F1 score would be discovered. Validation of system would ensure the model robustness and its adaptability for performing comprehensive testing process. After successful validation ove the system of selecting and evaluating supplier selection process using automated approach when deployed in actual operational environment for successive updates. The proposed frame work and approach is a systematic approach for automating supplier selection process for providing dynamic and adaptable solution for business firms for seeking better decision making capabilities in Supply Chain Management.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007373 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOLOGICALLY ACTIVE ANTI-CANCER COMPOUND AND DERIVATIVE THEREOF, AND GREEN SYNTHESIS THEREOF

(51) International classification :A61P0035000000, A61K0031198000, A61K0036185000, A61P0043000000, A61K0038050000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)UNIVERSITY OF DELHI

Address of Applicant :Dr. B. R. Ambedkar Center for Biomedical Research, Faculty of Science, University of Delhi, North Campus, Delhi- 110007, India Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rakesh Kumar

Address of Applicant :Professor, Department of Chemistry, Faculty of Science, University of Delhi, North Campus, Delhi- 110007, India Delhi -----

2)Sanjay Kumar Dey

Address of Applicant :Assistant Professor, Dr. B. R. Ambedkar Center for Biomedical Research, Faculty of Science, University of Delhi, North Campus, Delhi-110007, India Delhi -----

3)Keshav Kumar Saini

Address of Applicant :Assistant Professor, Dyal Singh College, University of Delhi, New Delhi - 110003, India Delhi -----

4)Ravindra Kumar Upadhyay

Address of Applicant :Assistant Professor, Sri Venkateswara College Benito Juarez Road Dhaula Kuan, University of Delhi, South Campus, New Delhi - 110021, India Delhi -----

5)Diksha Rani

Address of Applicant :PhD Scholar, Dr. B. R. Ambedkar Center for Biomedical Research, Faculty of Science, University of Delhi, North Campus, Delhi-110007, India Delhi -----

(57) Abstract :

ABSTRACT BIOLOGICALLY ACTIVE ANTI-CANCER COMPOUND AND DERIVATIVE THEREOF, AND GREEN SYNTHESIS THEREOF The present disclosure relates to a biologically active ant-breast cancer compound (7) and derivative thereof. The compound (7) is an anti-cancer agent to inhibit breast cancer cells proliferation. The targeted breast cancer cells include such as but not limited to MCF-7, HEK-293, and MDA-MB-231. The compound (7) can be administered in low dosage in nano molar concentrations in order to inhibit cancer cells proliferation, and have fewer side effects. The present disclosure also discloses a green process (900) for the synthesis of the compound (7). Figures 1A and 9

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007376 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ANDROID MOBILE DEVICE POSTURE MONITORING SYSTEM FOR ERGONOMIC NECK HEALTH

(51) International classification :A61B5/103, A61B5/11, A61B5/68, G06F3/01, G08B21/00, G16Y40/10
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GRAPHIC ERA DEEMED TO BE UNIVERSITY

Address of Applicant :566/6, Bell Road, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India.
Dehradun -----

2)GRAPHIC ERA HILL UNIVERSITY

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. NEELAM SINGH

Address of Applicant :Department of Computer Applications, Graphic Era deemed to be University, Dehradun. Dehradun -----

2)AKARSH MANODEE

Address of Applicant :Department of Computer Applications, Graphic Era deemed to be University, Dehradun. Dehradun -----

(57) Abstract :

The Android Mobile Device Posture Monitoring System addresses musculoskeletal issues linked to prolonged mobile device use. Employing the Android accelerometer, the algorithm monitors neck posture in real-time, providing customizable feedback through vibration alerts and visual indicators. Key features include real-time posture correction prompts, user-friendly customization options, and seamless integration with Android services. The system promotes healthier mobile device usage habits, contributing to overall user well-being by reducing discomfort and health risks associated with poor neck positioning during device use.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007388 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM FOR WORK ENGAGEMENT MANAGEMENT

(51) International classification :G06Q0030020000, G06Q0010060000, F24F0011520000, G06N0020000000, H04L0041147000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)IIHMR UNIVERSITY

Address of Applicant :1, PRABHU DAYAL MARG, NEAR SANGANER AIRPORT, MARUTI NAGAR, JAIPUR, RAJASTHAN 302029 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. P.R. SODANI

Address of Applicant :PROFESSOR AND PRESIDENT, IIHMR UNIVERSITY, 1, PRABHU DAYAL MARG, NEAR SANGANER AIRPORT, MARUTI NAGAR, JAIPUR, RAJASTHAN 302029 JAIPUR -----

2)DR. AARTI SHARMA

Address of Applicant :PROFESSOR OF PRACTICE, IIHMR UNIVERSITY, JAIPUR JAIPUR -----

3)KIRTI AGARWAL

Address of Applicant :RESEARCH SCHOLAR, IIHMR UNIVERSITY, JAIPUR JAIPUR -----

(57) Abstract :

Disclosed herein is a computer-implemented work engagement management system (100) comprising a data collection module (102) configured to collect and store relevant demographic data. The system (100) also comprising a work engagement metrics module (104) configured to track engagement metrics in real-time to identify trends and patterns. The system (100) also comprising an analysis and reporting module (106) configured to analyse the relationship between demographic variables and work engagement. The system (100) also comprising a predictive modelling module (108) configured to predict future work engagement levels based on historical data and demographic trends. The system (100) also comprising a communication network (110) configured to connect the work engagement metrics module (104) to the analysis and reporting module (106) and the predictive modelling module (108). The system (100) also comprising a user interface (112) configured to display visual representations of engagement metrics and demographic data variations.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007392 A

(19) INDIA

(22) Date of filing of Application :03/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AI BASED CANCER RESEARCH AND TREATMENT SYSTEMS AND METHODS

<p>(51) International classification :A61P0035000000, A61K0045060000, C12Q0001020000, A61P0031000000, A61P0031220000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof.(Dr.) Sandeep Gupta Address of Applicant :Director, Sunder Deep Engineering College, Ghaziabad, 201015, (Affiliated to AKTU, Lucknow), Uttar Pradesh, India. -----</p> <p>2)Mr. Manoj Yadav</p> <p>3)Ms. Suman</p> <p>4)Mr. Arshi Fariya</p> <p>5)Ms. Neha Bhati</p> <p>6)Mr. Dilip Kumar</p> <p>7)Ms. Manisha Singh</p> <p>8)Ms.Ritu Malhotra</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof.(Dr.) Sandeep Gupta Address of Applicant :Director, Sunder Deep Engineering College, Ghaziabad, 201015, (Affiliated to AKTU, Lucknow), Uttar Pradesh, India. -----</p> <p>2)Mr. Manoj Yadav Address of Applicant :Assistant Professor, Department of Computer Science & Engineering IMS ENGINEERING COLLEGE, GHAZIABAD-201015, (Affiliated to AKTU, Lucknow), Uttar Pradesh, India. -----</p> <p>3)Ms. Suman Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Echelon Institute of Technology, Faridabad -121101, (Affiliated to JC Bose University Faridabad), Haryana, India. -----</p> <p>4)Mr. Arshi Fariya Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Echelon Institute of Technology, Faridabad -121101, (Affiliated to JC Bose University Faridabad), Haryana, India. -----</p> <p>5)Ms. Neha Bhati Address of Applicant :Assistant professor, Department of Computer Science & Engineering Echelon Institute of Technology Faridabad -121101, (Affiliated to JC Bose University Faridabad), Haryana, India. -----</p> <p>6)Mr. Dilip Kumar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Sunder Deep Engineering College, Ghaziabad-201015, (Affiliated to AKTU, Lucknow), Uttar Pradesh, India. -----</p> <p>7)Ms. Manisha Singh Address of Applicant :Assistant Professor, Department of Computer Science & Engineering Sunder Deep Engineering College, Ghaziabad-201015, (Affiliated to AKTU, Lucknow), Uttar Pradesh, India. -----</p> <p>8)Ms.Ritu Malhotra Address of Applicant :Assistant Professor, Department of Computer Applications, Greater Noida Institute of Professional studies, Gr. Noida, Uttar Pradesh, India. ----</p>
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(57) Abstract :
 AI BASED CANCER RESEARCH AND TREATMENT SYSTEMS AND METHODS A method for the development of the front end of the central half of the bed is hollowed out to form a long strip-shaped groove. A moveable trolley and disc radiators are located beneath the groove. The bed's two sides each have one disc style radiator, which can swing left and right and be positioned. Compositions for cancer or infection treatment via immunopotential caused by inhibition of immunosuppressive signal induced by PD-1, PD-L1, or PD-L2 and therapies using them, immune potentiate substrates included as the active ingredient, screening methods of the substrates for cancer or infection treatment, cell lines used for the screening methods, evaluation methods that select the substrates for cancer treatment, and carcinoma cell transplanted mammals used for. A method and system for storing user application programmed and micro-service programmed for each of multiple patients with cancerous cells and receiving treatment includes obtaining clinical records data in original forms, storing it in a semi-structured first database, and using a next generation genomic sequencer to generate sequencing data for the patient's cancerous and normal cells, which is then stored in the first database. FIG.1

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008122 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM TO DETECT MALICIOUS BEACONING COMMUNITIES WITHIN A NETWORK AND METHOD THEREOF

(51) International classification :G06F0011160000, G06F0021550000, G06F0016245800, G06F0021560000, G16H0010600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA
 (72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)SHARMA, Himanshu
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 A system (102) for detecting malicious beaconing communities within a network using lockstep analysis and co-occurrence graph techniques is disclosed. The system (102) receives data from network nodes, identify entities engaged in beaconing activities through analysis of temporal behaviors and communication patterns, and implements a lockstep analysis module for detecting synchronized activities. Utilizing a co-occurrence graph technique, the system (102) constructs a graphical representation of relationships and identifies communities among network nodes with similar communication patterns. Further, the system (102) identifies communities exhibiting malicious beaconing activities, assesses their severity, and generates an alert that is transmitted to a computing device.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008123 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR DYNAMIC DATA ASSOCIATION, ANALYSIS, AND VISUAL REPRESENTATION WITHIN DATABASE-DRIVEN USER INTERFACES

<p>(51) International classification :G06F0003048200, G06F0016280000, G06Q0010060000, G09B0007000000, G06T0011200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)Bluest Mettle Solutions Private Limited Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MISHRA, Saket Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p>2)PANDEY, Sakshi Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----</p> <p>3)PALAK Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The present disclosure relates to a system for dynamic data association, analysis, and visual representation in a database-driven user interface, the system includes a data management module (102) configured to: organize and retrieve data from one or more databases and incorporate advanced indexing and search algorithms for real-time responsiveness. An analysis module (104) configured to provide users with a diverse range of analytical approach pertaining to statistical analysis, regression analysis, clustering, classification. A visualization module (106) offers interactive visual representations, allowing users to create dynamic visualizations with functionalities pertaining to filtering, zooming, and highlighting thereby enabling users to perform data association, execute analyses, and visualize results without switching between different interfaces.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008158 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONCENTRATED GROWTH FACTOR SCAFFOLD AND METHOD FOR PREPARING THE SAME

(51) International classification :A61L0027540000, A61L0027560000, A61L0027240000, A61L0027580000, A61P0009100000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD
 Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004, India
 Faridabad -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Alpa Gupta
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad

2)Dr. Vivek Aggarwal
 Address of Applicant :Department of conservative dentistry & Endodontics Jamia Millia Islamia, New delhi-110025, India Delhi

3)Dr. Aditya Sharma
 Address of Applicant :Department of Physics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad

4)Dr. Jitesh Wadhwa
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

(57) Abstract :
 CONCENTRATED GROWTH FACTOR SCAFFOLD AND METHOD FOR PREPARING THE SAME ABSTRACT A
 Concentrated Growth Factor (CGF) scaffold (100) is disclosed for bone tissue regenerative therapy. The scaffold comprises a membrane (102) fabricated from a blood product obtained from a patient through a utilization of a Concentrated Growth Factor (CGF) machine (202). The scaffold (100) further incorporates hydroxyapatite nanoparticles (nHA) (104), imparting heightened antimicrobial properties, antioxidant capacity, and bone formation potential. The hydroxyapatite nanoparticles (nHA) (104) are synthesized in Nano-dimensions, ranging from 1 nanometer (nm) to 100 nanometers (nm), ensuring optimal performance and compatibility within the scaffold. The present invention further provides a method for developing the Concentrated Growth Factor (CGF) scaffold (100) for efficient bone tissue healing and regeneration. Claims: 10, Figures: 4 Figure 1 is selected.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008159 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SCAFFOLD AND METHOD FOR PREPARING THE SAME

(51) International classification :A61L0027540000, A61L0027560000, A61L0027240000, A61P0009100000, A61L0027320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD
 Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004, India Email ID: dean.research@mriu.edu.in Mb: 9560299045 Faridabad -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Alpa Gupta
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

2)Dr. Jitesh Wadhwa
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

3)Dr. Aditya Sharma
 Address of Applicant :Department of Physics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

4)Dr. Vivek Aggarwal
 Address of Applicant :Department of conservative dentistry & Endodontics Jamia Millia Islamia, New delhi-110025, India Delhi -----

(57) Abstract :
 SCAFFOLD AND METHOD FOR PREPARING THE SAME ABSTRACT A scaffold (100) is disclosed for bone tissue regenerative therapy. The scaffold comprises a membrane (102) fabricated from a blood product obtained from a patient through a utilization of a Concentrated Growth Factor (CGF) machine (202). The scaffold (100) further incorporates hydroxyapatite nanoparticles (nHA) (104) doped with selenium nanoparticles (Se) (106), imparting heightened antimicrobial properties, antioxidant capacity, and bone formation potential. The hydroxyapatite nanoparticles (nHA) (104) are synthesized in Nano-dimensions, ranging from 1 nanometer (nm) to 100 nanometers (nm), ensuring optimal performance and compatibility within the scaffold. The present invention further provides a method for developing the scaffold (100) for efficient bone tissue healing and regeneration. Claims: 10, Figures: 4 Figure 1 is selected.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007517 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN E-GLASS FIBER REINFORCED EPOXY RESIN COMPOSITE AND PROCESS THEREOF

(51) International classification :B82Y30/00, C01B32/198, C08K3/04, C09C1/44, C09C3/06, C09D163/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Thapar Institute of Engineering & Technology

Address of Applicant :Bhadson Road, Patiala, Punjab-147004 patiala -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ms. Anushka Garg

Address of Applicant :SCBC, TIET-VT CEEMS-147004 Patiala --

2)Prof. Soumen Basu

Address of Applicant :SCBC, TIET-VT CEEMS-147004 Patiala --

3)Prof. Roop L. Mahajan

Address of Applicant :Department of Mechanical Engineering, Virginia Tech.; Chair Professor, TIET-VT, CEEMS-22203 -----

4)Prof. Rajeev Mehta

Address of Applicant :SCBC, TIET-VT CEEMS-147004 Patiala --

(57) Abstract :

AN E-GLASS FIBER REINFORCED EPOXY COMPOSITES AND PROCESS THEREOF The present invention relates to a novel composition of epoxy resin fiber which enhances the mechanical properties of the composition. The epoxy resin composite, here in, includes an epoxy resin, a glass fiber, nanofillers, a hardener and an oxidizing agent. In the embodiment, one of the nanofillers are derived through a one-pot method. The final product obtained by this invention is highly cost-efficient and beneficial for industrial purposes.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007519 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTELLIGENT WASTE MANAGEMENT SYSTEM USING DRONES WITH IOT AND GPS ENABLED TECHNOLOGIES

(51) International classification :B64C0039020000, H04L0067120000, H04N0005232000, G06Q0010000000, A61F0013505000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Harsh khatter

Address of Applicant :54, Narayan Sadan, Anandi Pura, Gurudwara Road, Modinagar -----

2)Amit Sharma

3)Pradeep Kumar Singh

4)Palak Mahajan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amit Sharma

Address of Applicant :Assistant Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India- 140401 -----

2)Pradeep Kumar Singh

Address of Applicant :Associate Professor Department of Computer Science & Engineering, Central University of Jammu. Rahya-Suchani (Bagla), District Samba, Pincode - 181 143, Jammu & Kashmir (J&K), India -----

3)Harsh Khatter

Address of Applicant :Associate Professor, Department of Computer Science, KIET Group of Institutions, Delhi-NCR, 13 KM Stone, NH 58, Ghaziabad, Uttar Pradesh, India – 201206 Ghaziabad -----

4)Palak Mahajan

Address of Applicant :Assistant Professor Department of Computer Science & Engineering, Central University of Jammu. Rahya-Suchani (Bagla), District Samba, Pincode - 181 143, Jammu & Kashmir (J&K), India Samba -----

(57) Abstract :

The present invention provides a method and system for intelligent waste management system using drones with iot and gps enabled technologies. The method comprising of the sensors and camera to get the data and act accordingly. The details are shared in the present invention and described using figures related to the enclosure.

No. of Pages : 23 No. of Claims : 4

(54) Title of the invention : A SYSTEM FOR ENHANCING HIGH ORDER THINKING LEVEL OF STUDENTS VIA BLOOMED TAXONOMY

(51) International classification :G06Q0050200000, G06F0009440100, G09B0019000000,
G06Q0030020000, H04L0043040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Uchit Kapoor
Address of Applicant :1815 Civil Lines, Jagadhri, District Yamunanagar, Haryana, Pin - 135003 -----

2)Dr. Akanksha Srivastava
3)Dr. Nishi Tyagi
4)Dr. Anjali Pandey
5)Dr. Garima Mathur
6)Dr. Sneha Rajput
7)Dr. Nalini Dixit
8)Frederick Sidney Correa
9)Dr. Aashish Mehra
10)Dr. Krity Gulati
11)Dr. Imad Ali
12)Ms. Kajal Chauhan
13)Dr. Shilpy Raaj
14)Dr. Kavita Chordiya
15)Prof. Chinmoy Goswami
16)Dr. Munmun Goswami
17)Dr. Vijaya Hake
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Uchit Kapoor
Address of Applicant :1815 Civil Lines, Jagadhri, District Yamunanagar, Haryana, Pin - 135003 -----

2)Dr. Akanksha Srivastava
Address of Applicant :Associate Professor, School of Education, Sharda University, Greater Noida- 201306, India Greater Noida -----

3)Dr. Nishi Tyagi
Address of Applicant :Associate Professor and Head, Department of of Education, Modern College of Professional Studies Mohan Nagar Ghaziabad- 201007, India Ghaziabad -----

4)Dr. Anjali Pandey
Address of Applicant :Assistant Professor, Education Department, RBB Subharti Dehradun, Dehradun- 248001, India Dehradun -----

5)Dr. Garima Mathur
Address of Applicant :Professor, Prestige Institute of Management and Research, Gwalior, India Gwalior -----

6)Dr. Sneha Rajput
Address of Applicant :Associate Professor, Prestige Institute of Management and Research, Gwalior, India Gwalior -----

7)Dr. Nalini Dixit
Address of Applicant :Principal in - Charge, R.B.Mundada College of Arts Commerce and Science, Pune, India Pune -----

8)Frederick Sidney Correa
Address of Applicant :Chitkara Business School, Chitkara University, Chandigarh, India Chandigarh -----

9)Dr. Aashish Mehra
Address of Applicant :Professor, School of Retail Management, Symbiosis University of Applied Sciences, Indore, India Indore -----

10)Dr. Krity Gulati
Address of Applicant :Professor, Lloyd Business School, Noida, India Noida -----

11)Dr. Imad Ali
Address of Applicant :Professor, GNIOT Institute of Management Studies, Greater Noida, India Greater Noida -----

12)Ms. Kajal Chauhan
Address of Applicant :Assistant Professor, Lloyd Business School, Noida, India Noida -----

13)Dr. Shilpy Raaj
Address of Applicant :Assistant Professor, Department of Education, Central University of Jharkhand, Ranchi, Jharkhand - 835205, India Ranchi -----

14)Dr. Kavita Chordiya
Address of Applicant :Asst. Professor, Ajeenkya D Y Patil University, Pune-412105, India Pune -----

15)Prof. Chinmoy Goswami
Address of Applicant :Asst. Professor, Ajeenkya D Y Patil University, Pune-412105, India Pune -----

16)Dr. Munmun Goswami
Address of Applicant :Assistant Professor, IIM Rohtak, Rohtak - 124010, India Rohtak -----

17)Dr. Vijaya Hake
Address of Applicant :Assistant Professor, Vishvakarma University, Pune 411046, India Pune -----

(57) Abstract :
ABSTRACT A SYSTEM FOR ENHANCING HIGH ORDER THINKING LEVEL OF STUDENTS VIA BLOOMED TAXONOMY In an aspect of the present disclosure, a system (100) for enhancing high-level thinking in pupil is disclosed. The system (100) includes a unified platform having a database including details of records of all students and teachers. An interface is configured to monitor status of thinking levels of each of the student. An analysis tool is configured to analyze performance of each of the student through a microprocessor integrated with a plurality of modules. A rejuvenating module is configured to build habits of the students.
Figure 1

No. of Pages : 25 No. of Claims : 6

(54) Title of the invention : THE ROLE OF MACHINE LEARNING IN PREDICTING POSITIVE EMOTIONS AT WORK AND ITS IMPACT ON TEACHERS' JOB SATISFACTION AND WELL-BEING

<p>(51) International classification :G06N002000000, G06K000962000, G06Q005000000, G10L0025630000, H04W0004029000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Gagan Singh Address of Applicant :Assistant Professor/ BBA Department , Meerut Institute Of Technology, Meerut, 250001 Meerut ----- 2)Dr Neelima Priyanka Nutulapati 3)Dr. Bhoopendra Karwande 4)Midhun Moorthi C 5)Dr.M.Sindhu 6)Er. Abhijeet Maurya 7)Rahul Kumar 8)Dr. Maaz Allah Khan 9)Dr. Gourav kalra 10)Dr.D.Satheesh Kumar 11)Dr. Talari Lakshmi Narayana 12)Dr. Harshal Patil Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Gagan Singh Address of Applicant :Assistant Professor/ BBA Department , Meerut Institute Of Technology, Meerut, 250001 Meerut ----- 2)Dr Neelima Priyanka Nutulapati Address of Applicant :Professor, Department of Information Technology, SRK Institute of Technology, Enikepadu, Vijayawada, 521108 Vijayawada ----- 3)Dr. Bhoopendra Karwande Address of Applicant :Asst. Professor Law, Govt. J. Y. Chhattisgah College Raipur 492001 Raipur ----- 4)Midhun Moorthi C Address of Applicant :Research Scholar, Govt. College of Teacher Education, Kozhikode Kozhikode ----- 5)Dr.M.Sindhu Address of Applicant :Excel engineering college Autonomous Komarapalayam Namakkal ---- 6)Er. Abhijeet Maurya Address of Applicant :Workshop Superintendent (Incharge), Central Workshop, Faculty of Engineering and Technology, University of Lucknow, Jankipuram, Lucknow -226031 Lucknow ----- 7)Rahul Kumar Address of Applicant :Assistant Professor, Department of Teacher Education, Swami Shukdevanand College, Mumukshu Ashram, Shahjahanpur, Uttar Pradesh 242001 Shahjahanpur ----- 8)Dr. Maaz Allah Khan Address of Applicant :Department of Civil Engineering, UIET Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow UP Lucknow ----- 9)Dr. Gourav kalra Address of Applicant :Assistant Professor, department of Mechanical engineering, Maharishi Markandeshwar (Deemed to be University), Mullana Ambala ----- 10)Dr.D.Satheesh Kumar Address of Applicant :Associate Professor / Department of CSE, Hindusthan College of Engineering and Technology Coimbatore ----- 11)Dr. Talari Lakshmi Narayana Address of Applicant :Associate Professor & Head, Department of Electronics and Communication Engineering, Kandula Lakshumma Memorial College of Engineering for Women, Kadapa, Andhra Pradesh, India - 516003 Kadapa ----- 12)Dr. Harshal Patil Address of Applicant :Associate Professor, Balaji Institute of Technology & Management (BITM), Sri Balaji University, Pune, 411033 Pune -----</p>
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(57) Abstract :
The role of machine learning in predicting positive emotions at work and its impact on teachers' job satisfaction and well-being is the proposed invention. The proposed invention focuses on understanding the functions of impact on teachers' job satisfaction and well-being. The invention focuses on analyzing the parameters of job's positive emotion using algorithms of machine learning.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007526 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ANALYSIS ON DEVELOPMENT OF EFFICIENT BAYESIAN AND SPATIAL MODELS FOR STUDYING PHARMACOLOGICAL DATA

<p>(51) International classification :G06K0009620000, C12N0015100000, G02F0001161000, G06T0009000000, G06N0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MJP ROHILKHAND UNIVERSITY Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Amit Kumar Verma Address of Applicant :Assistant Professor, Dept. of Pharmacy, MJP Rohilkhand University, Bareilly, India Bareilly -----</p> <p>2)Dr Amit Singh Address of Applicant :Associate Professor, Department of Law, MJP Rohilkhand University, Bareilly, India Bareilly -----</p> <p>3)Dr Saurabh Mishra Address of Applicant :Assistant Professor, Department of Pharmacy, MJP Rohilkhand University, Bareilly, India Bareilly ---</p> <p>4)Prof S K Pandey Address of Applicant :Professor, Department of Applied Chemistry, MJP Rohilkhand University, Bareilly, India Bareilly --</p> <p>5)Prof Sudhir Kumar Address of Applicant :Professor, Department of Applied Physics, MJP Rohilkhand University, Bareilly, India Bareilly -----</p> <p>6)Prof. Vinay Rishiwal Address of Applicant :Dept. of CSIT, MJP Rohilkhand University, Bareilly, India Bareilly -----</p>
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(57) Abstract :
Analysis on development of efficient Bayesian and spatial models for studying pharmacological data is the proposed invention. The proposed invention focuses on studying the pharmacological data. The invention focuses on analyzing the development of efficient Bayesian and spatial models.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : AN ENHANCED FRAMEWORK FOR AUTOMATIC TEXT CLASSIFICATION USING MACHINE LEARNING

(51) International classification :G06F0016350000, G06N0003040000, G06N0003080000, G06N0020000000, H04L0051000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Neha Gupta
 Address of Applicant :Vill Mohanpur PO Premnagar -----

2)Dr Vinay Kumar Singh
3)Dr. Umang Garg
4)Shefali Raina
5)Dr Meenu Vijarania
6)Archit Arora
7)Anshul Jaglan
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Neha Gupta
 Address of Applicant :Vill Mohanpur PO Premnagar -----
2)Dr Vinay Kumar Singh
 Address of Applicant :Professor, School of Computer Science & Engineering, Lovely Professional University, Phagwara, Panjab, India. ---

3)Dr. Umang Garg
 Address of Applicant :Associate Professor, School of Computer Science & Engineering, Amity University, Gwalior, India. -----
4)Shefali Raina
 Address of Applicant :Assistant Professor, Computer Engineering, Mumbai University, Vasantdada Patil Pratishthan’s College of Engineering & Visual Arts, Sion, Mumbai, India -----
5)Dr Meenu Vijarania
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, School of Engineering & Technology, K R Mangalam University, Haryana, India. -----
6)Archit Arora
 Address of Applicant :Delhi Public School, IOCL township, Panipat, India -----
7)Anshul Jaglan
 Address of Applicant :Amity international school, Gwalior, India -----

(57) Abstract :
 Classification of text documents has its real-world applications. In fact, it is important to parse documents containing natural language and classify them. This kind of research is essential to leverage applications like fake news detection, query tagging, sentiment classification and spam filtering. However, it is a challenging problem to correctly classify text documents due to ambiguity, unrestrictive nature, and vast size of text documents. With the emergence of Artificial Intelligence (AI) machine learning (ML) techniques became valuable due to their learning-based approach. They are found suitable to process large volumes of data in more comprehensive manner. With ML techniques a wide range of problems such as topic segmentation, text classification, entity recognition, machine translation and text summarization, to mention few, can be solved. In this patent we proposed a framework known as Automatic Text Classification Framework (ATCF) which exploits shallow and deep neural networks towards text document classification. We proposed an algorithm known as Learning based Text Classification (LbTC) to realize our framework. We made a comparative study of different models and their performance. The proposed framework helps in classifying any kind of documents based on the training given to ML models. It can be integrated with real world applications where classification of documents is indispensable.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008442 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : OCR INTEGRATED REUSABLE NOTEBOOK

(51) International classification :H01L0031105000, G02B0021140000, G09B0021000000, H04N0005217000, A61M0005240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Shivam Sharma
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Dr. Nitin Kumar Saluja
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

3)Dr. Neha Tuli
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

4)Ananaya Bansal
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

5)Akarsh Anand Sinha
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

6)Dr. Archana Mantri
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :

ABSTRACT OCR integrated reusable notebook The present disclosure introduces an OCR-integrated reusable notebook, revolutionizing traditional note-taking by combining the tactile experience with advanced Optical Character Recognition (OCR) technology. The system comprises of a reusable notebook 102 with specialized pages for effortless writing and erasing and an accompanying OCR application 104 that integrates scanning functionality to capture notebook content using a device's camera and initiate the digitization process. Reference Fig 1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008443 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : TEMPERATURE MONITORING SYSTEM AND METHOD FOR UTILIZING SILICON GERMANIUM NANOWIRE JUNCTIONLESS FIELD EFFECT TRANSISTORS

(51) International classification :H01L0029660000, H01L0029160000, H01L0031035200, H01L0029000000, H01L0031068000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Anchal Thakur

Address of Applicant :Department of Interdisciplinary Courses in Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Girish Wadhwa

Address of Applicant :Department of Interdisciplinary Courses in Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

3)Tarun Chaudhary

Address of Applicant :NIT Jalandhar, Grand Trunk Road, Barnala - Amritsar Bypass Rd, Jalandhar, Punjab 144011 Jalandhar -----

4)Rohit Dhiman

Address of Applicant :ECE department, NIT Hamirpur, Hamirpur, Himachal Pradesh Hamirpur -----

5)Balwinder Raj

Address of Applicant :NIT Jalandhar, Grand Trunk Road, Barnala - Amritsar Bypass Rd, Jalandhar, Punjab 144011 Jalandhar -----

(57) Abstract :

The present disclosure discloses a system (102) for monitoring temperature of low power devices using silicon germanium nanowire junction less field effect transistors, the system (102) configured to employ device simulation module (104), incorporate a Lombardi mobility model (106), and utilize fermi-Dirac, auger recombination, and Shockley-read-hall model (108), wherein the Shockley-read-hall model is utilized for quantum confinement and lateral tunnelling effects. FIG. 1

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008444 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HAND & WRIST SUPPORT FOR IV CANNULA IN PAEDIATRICS

(51) International classification :A61M25/00, A61M25/06, A61M5/14

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Ms. Divya Thakur
Address of Applicant :CSHS, Department Of Nursing, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Ms. Vanita
Address of Applicant :Nursing Officer, Dr. Radhkrishanan Government Medical College & Hospital, Hamirpur, Himachal Pradesh, India. Hamirpur -----

3)Ms. Neha
Address of Applicant :Nursing Officer, Shri Lal Bahadur Shastri Government Medical College & Hospital, Ner Chowk, Mandi, Himachal Pradesh, India. Mandi -----

(57) Abstract :
 ABSTRACT Hand & Wrist Support for IV Cannula in Paediatrics The present disclosure introduces a Hand & Wrist Support for IV Cannula in Paediatrics representing a pioneering system in paediatric healthcare. This invention introduces a meticulously designed accessory to address the challenges of intravenous (IV) cannulation in children. It comprises of soft interior material 102, durable exterior material 104, elastic band 106, ties 108, cannula 110, hoop and loop tape 112. The support system prioritizes patient comfort and stability during IV therapy. REFERENCE FIG 1

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008445 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTELLIGENT SYSTEM FOR UNIFORM IDENTIFICATION AND AUTHENTICATION

(51) International classification :G06Q0050200000, G07C0009000000, G06F0021320000, G11C0013000000, G07C0009380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Swapandeep Kaur

Address of Applicant :Department of Electronics and Communication Engineering, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Ms. Priyanka Malhotra

Address of Applicant :Department of Electronics and Communication Engineering, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :

ABSTRACT Intelligent System for Uniform identification and Authentication The present disclosure introduces an intelligent system for uniform identification and authentication 100. It represents an innovative system to address persistent challenges faced by educational institutions in managing uniform compliance and security. It comprises of web cameras 102, database management 104, face recognition module 106, logo detection and segmentation module 108, feature matching module 110, entry control module 112, automatic fine imposition system 114 and alarm system 116. Together, these components work harmoniously to ensure that only authorized individuals in proper uniform gain access to the institution. REFERENCE 1

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008446 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MAGNETO MAGNIFICIANT MOBILE CASE

(51) International classification :G09B0021000000, G02B0025000000, G06F0003048100, H02J0007000000, G06K0007100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Swati Arora
 Address of Applicant :Department of Electrical Engineering, Chitkara University Institute of Engineering and Technology- Applied Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
2)Himanshu Jindal
 Address of Applicant :BE Electrical Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :

ABSTRACT Magneto Magnificent Mobile Case The present disclosure introduces magneto magnificent mobile case 100 that redefines accessibility and convenience for individuals with poor eyesight when using mobile phones. It comprises of magnifying glass 102, scrolling button 104, wireless charging 106, magnetic locks 108, type c port 110 and bluetooth connectivity 112. The versatility of magneto magnificent mobile case 100 empowers users to read messages, navigate apps, view images, and more with confidence and ease. REFERENCE FIG 1

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007529 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROGRAMMING EXAM CHEATING GUARD SYSTEM AND A METHOD THEREOF

(51) International classification :G06F0001323400, A63F0013750000, H04L0067306000, G06F0021570000, B06B0001060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Baba Farid College of Engineering and Technology
Address of Applicant :Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

2)Baba Farid College
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Er. Amritpal Kaur
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

2)Dr. Jyoti Bansal
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

3)Dr. Nimisha Singh
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

4)Mamandeep Singh
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

5)Mehakdeep Singh
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

6)Amrender Singh
Address of Applicant :Department of Computer Science & Engineering, Baba Farid College of Engineering and Technology, Muktsar Road, Bathinda-151001, Punjab, India Bathinda -----

(57) Abstract :
 ABSTRACT PROGRAMMING EXAM CHEATING GUARD SYSTEM AND A METHOD THEREOF In an aspect, the present disclosure discloses a cheating guard system (100) and a method (200) thereof. The system (100) includes an image capturing unit (102) to track movement of eyeball; a computing device (104) to run instructions to guard cheating during programming exam and a monitor having a current screen to display the exam; a keyboard (106) to provide input to the computing device (104); and a microcontroller (108) comprising a storage memory (108A) coupled with a processor (108B) to operate a plurality of modules. Figures 1A and 2

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007538 A

(19) INDIA

(22) Date of filing of Application :04/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : EFFECT OF FOLIAR FEEDING OF GROWTH REGULATORS AND MICRONUTRIENTS ON YIELD AND QUALITY IN BER (ZIZIPHUS MAURITIANA LAMK.) CV. THAI APPLE

(51) International classification :A01H0004000000, A61K0036725000, C05D0009020000, G02F0001133300, C07D0403120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gagan Mehta

Address of Applicant :sec- 9/11 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gagan Mehta

Address of Applicant :Department of Horticulture, Maharana Pratap Horticultural University, Karnal Hisar -----

(57) Abstract :

Belonging to the Ramenaceae family, ber or Indian jujube (*Ziziphus mauritiana* Lamk.) is one of the oldest and most common fruits of the Indian peninsula and Southwest China. It is very popular among consumers due to its high nutritional value but relatively lower market price. Its fruits are delicious and are usually eaten fresh. Ber are also considered more nutritious than apples, as they contain more protein, beta-carotene and vitamin C (70-165 mg/100g of pulp). With seven treatments of growth regulators and micronutrients at varying doses and three replications of each micronutrient and growth regulators combination, the experiment was set up using a randomised block design. GA3 (10 mg/lit), NAA (20 mg/lit), ZnSO4 (0.5 %), KNO3 (2%) and their various combinations were the treatments. The application of GA3 (10 mg/lit)+ NAA (20 mg/lit)+ KNO3 (2%) was found to be optimal in terms of fruit length, fruit weight, maximum fruit yield followed by the application of GA3 (10 mg/lit)+ NAA (20 mg/lit)+ ZnSO4 (0.5 %).

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007552 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : REAL TIME INFORMATION VALUE CHAIN SYSTEM FOR BIG DATA ANALYTICS

(51) International classification :G06Q0010060000, G06N0020000000, G06Q0010100000, G06Q0040000000, G16H0010600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DR. DEEPAK SHARMA
 Address of Applicant :DEAN AND PROFESSOR, SCHOOL OF ENGINEERING AND INFORMATION TECHNOLOGY, SANSKRITI UNIVERSITY, MATHURA, UTTAR PRADESH --

2)DR. RACHNA SHARMA
3)KULVINDER SINGH
4)VISHAL WARIKOO
5)ANIL GANKOTIYA
6)KM UJJAWAL
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)DR. DEEPAK SHARMA
 Address of Applicant :DEAN AND PROFESSOR, SCHOOL OF ENGINEERING AND INFORMATION TECHNOLOGY, SANSKRITI UNIVERSITY, MATHURA, UTTAR PRADESH --

2)DR. RACHNA SHARMA
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF LIBERAL ARTS, IMS UNISON UNIVERSITY, DEHRADUN, UTTARAKHAND -----

3)KULVINDER SINGH
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, CHANDIGARH UNIVERSITY, PUNJAB -----
4)VISHAL WARIKOO
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SARDAR BHAGWAN SINGH UNIVERSITY, DEHRADUN, UTTARAKHAND -----
5)ANIL GANKOTIYA
 Address of Applicant :ASSISTANT PROFESSOR, SCHOOL OF COMPUTER SCIENCE & ENGINEERING, GALGOTIAS UNIVERSITY, UTTAR PRADESH -----
6)KM UJJAWAL
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SWAMI VIVEKANAND SUBHARTI UNIVERSITY, MEERUT, UTTAR PRADESH -----

(57) Abstract :
 The Real Time Information Value Chain System for Big Data Analytics aims to address the challenges of processing and analyzing large volumes of data in real-time. This system leverages the power of big data analytics to extract valuable insights and provide useful information to end users. By integrating various stages of the information value chain, such as data collection, processing, analysis, and visualization, this system allows the end user to make informed decisions by using advanced generative AI, deep learning, machine learning, and data mining techniques. Advance Methods of Generative AI present very informatic findings inside the big data to address this challenge. In response to this pressing need, we introduce the concept of a real-time big data analytics system. The proposed model incorporates data mining, cloud services, and AI techniques to lead to better strategic decision-making.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007563 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PSYCHO-ADAPTIVE NEURAL NETWORK FOR SCALABLE INTEGRATION OF VISUAL WORKING MEMORY WITH NATURAL IMAGE PROCESSING

(51) International classification :G06N0003040000, G06N0003080000, G06N0003020000, G06N0005040000, G06N0003063000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Gaurav Dubey
 Address of Applicant :B 201 rail Vihar sector 3 vasundhara ---

2)PREETI MANANI
3)SHRADDHA SHARMA
4)RUPALI SATSANGI
5)RITU SHARMA
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)PREETI MANANI
 Address of Applicant :Department of Education and Elementary Education Mata Sundri College for Women, Delhi University ----

2)SHRADDHA SHARMA
 Address of Applicant :School of Liberal Studies, Pandit Deendayal Energy University, Gandhinagar -----
3)RUPALI SATSANGI
 Address of Applicant :Department of Economics , Dayalbagh Educational Institute, Dayalbagh Agra -----
4)RITU SHARMA
 Address of Applicant :School of Liberal Studies , Pandit Deendayal Energy University, Gandhinagar -----
5)Dr. Gaurav Dubey
 Address of Applicant :KIET Group of Institutions Delhi-NCR, Meerut Road (NH-58) Ghaziabad - 201206 Ghaziabad -----

(57) Abstract :
 Abstract This innovative project introduces a Psycho-Adaptive Neural Network designed for the scalable integration of Visual Working Memory (VWM) with Natural Image Processing. The proposed system aims to bridge the gap between human-like visual cognition and artificial intelligence by combining principles of VWM with advanced neural network architectures. The methodology encompasses the development of a neural network that not only efficiently encodes and processes visual information in real-time but also adapts to user-specific patterns and preferences through psycho-adaptive features. The system's scalability is emphasized, ensuring its applicability across diverse visual scenarios. Claims of improved real-time processing, human-like adaptation to visual input, scalability, and enhanced user experience through adaptive learning characterize the promising outcomes of this novel approach to the intersection of cognitive science and artificial intelligence. Through rigorous implementation and testing, the Psycho-Adaptive Neural Network demonstrates its potential to advance fields such as computer vision, augmented reality, and human-computer interaction.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008160 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOCOMPATIBLE SCAFFOLD AND METHOD FOR PREPARING THE SAME

(51) International classification :A61L0027540000, A61L0027560000, A61L0027380000, A61L0027240000, A61L0027460000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD
 Address of Applicant :Manav Rachna Campus Rd, Gadakhori Basti Village, Sector 43, Faridabad, Haryana 121004, India
 Faridabad -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Alpa Gupta
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies, Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
2)Dr. Jitesh Wadhwa
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies, Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
3)Dr. Aditya Sharma
 Address of Applicant :Department of Physics, Manav Rachna International Institute of Research and Studies, Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
4)Dr. Dax Abraham
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies, Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
5)Dr. Vivek Aggarwal
 Address of Applicant :Department of conservative dentistry & Endodontics Jamia Millia Islamia, New delhi-110025, India Delhi -----

(57) Abstract :
 BIOCOMPATIBLE SCAFFOLD AND METHOD FOR PREPARING THE SAME ABSTRACT A biocompatible scaffold (100) is disclosed for bone tissue regenerative therapy. The scaffold comprises a membrane (102) fabricated from a blood product obtained from a patient through a utilization of a Concentrated Growth Factor (CGF) machine (202). The scaffold (100) further incorporates hydroxyapatite nanoparticles (nHA) (104) doped with silver nanoparticles (Ag) (106), imparting heightened antimicrobial properties, antioxidant capacity, and bone formation potential. The hydroxyapatite nanoparticles (nHA) (104) are synthesized in Nano-dimensions, ranging from 1 nanometer (nm) to 100 nanometers (nm), ensuring optimal performance and compatibility within the scaffold. The present invention further provides a method for developing the scaffold (100) for efficient bone tissue healing and regeneration. Claims: 10, Figures: 4 Figure 1 is selected.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008161 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PHARMACEUTICAL COMPOSITION FOR ERADICATING ENTEROCOCCUS FAECALIS IN ROOT CANALS AND METHOD FOR PREPARING THE SAME

(51) International classification :A61K0035760000, C12N0007000000, A61P0031040000, A61K0035740000, G01N0031160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD
 Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004, India Email ID: dean.research@mrii.edu.in Mb: 9560299045 Faridabad -----
 --
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Alpa Gupta
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
 -
2)Dr. Anabathula Praharsha
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
 -
3)Dr. Jitesh Wadhwa
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----
4)Dr. Shakila Mahesh
 Address of Applicant :Department of Micro biology, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

5)Dr. Kanchan Bhardwaj
 Address of Applicant :Department of Biotechnology, Faculty of Engineering & Technology, Manav Rachna International Institute of Research and Studies, Sector-43, Delhi-Surajkund Road, Faridabad, Haryana-121003 Faridabad -----

(57) Abstract :
 PHARMACEUTICAL COMPOSITION FOR ERADICATING ENTEROCOCCUS FAECALIS IN ROOT CANALS AND METHOD FOR PREPARING THE SAME ABSTRACT A method (300) for preparing a pharmaceutical composition (100) is disclosed. The method (300) involves amplifying and titrating bacteriophages (104) to an initial concentration, followed by dilution to a final concentration in pure water. The bacteriophages (104) are then coated with silver nanoparticles (110) using a coacervation process in an Acetic acid sodium acetate buffer with continuous stirring. The solution is neutralized to pH 7.0 using a Sodium hydroxide solution, and the coated bacteriophages (104) are separated by high-speed centrifugation. Sterile Phosphate-Buffered Saline (PBS) is added to the resulting precipitate, and the pharmaceutical composition (100) is obtained using a calibrated pipette (204). The method (300) provides a precise and effective approach for eradicating Enterococcus faecalis from root canals and hence improving the success of root canal treatments. Claims: 10, Figures: 5 Figure 3 is selected.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008162 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOACTIVE SURGICAL SCAFFOLD AND METHOD FOR PREPARING THE SAME

(51) International classification :A61L0027540000, A61L0027560000, B82Y0040000000, B82Y0005000000, A61P0019080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH & STUDIES (MRIIRS) FARIDABAD
 Address of Applicant :Manav Rachna Campus Rd, Gadakhor Basti Village, Sector 43, Faridabad, Haryana 121004, India Email ID: dean.research@mriu.edu.in Mb: 9560299045 Faridabad -----

Name of Applicant : NA
Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Alpa Gupta
 Address of Applicant :Department of conservative dentistry & Endodontics, School of dental sciences, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

2)Dr. Vivek Aggarwal
 Address of Applicant :Department of conservative dentistry & Endodontics Jamia Millia Islamia, New delhi-110025, India Delhi -----

3)Dr. Jitesh Wadhwa
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

4)Dr. Shakila Mahesh
 Address of Applicant :Department of Micro biology, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

5)Dr. Puneet Batra
 Address of Applicant :Department of Orthodontics and Dentofacial Orthopaedics, Manav Rachna International Institute of Research and Studies,Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad Haryana 121004 Faridabad -----

(57) Abstract :
 BIOACTIVE SURGICAL SCAFFOLD AND METHOD FOR PREPARING THE SAME ABSTRACT A bioactive surgical scaffold (100) designed for bone tissue regenerative therapy is disclosed. The scaffold (100) comprises a biocompatible polymer membrane (102) embedded with silver nanoparticles (104) ranging in size from 5 to 10 nanometers (nm). These nanoparticles (104) are synthesized within the membrane (102) using polyethylene glycol, trisodium citrate, or their combination, facilitating a reduction and coating of silver ions into atoms. Incorporation of the silver nanoparticles (104) into the membrane (102) is achieved through ultrasonication with a nanosilver suspension. The membrane (102) is further characterized using Scanning Electron Microscopy (SEM) to verify nanoparticle integration. Particularly, the membrane (102) utilized in this bioactive surgical scaffold (100) is a Concentrated Growth Factor (CGF) membrane, that is capable of promoting bone tissue regeneration. The present invention further provides a method for developing the bioactive surgical scaffold (100) for efficient bone tissue healing and regeneration. Claims: 10, Figures: 4 Figure 1 is selected.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008447 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : OPACITY ADJUSTABLE SOLAR PANEL

(51) International classification :H01L0031048000, H02S0020300000, F21S0009030000, H02S0020230000, H02S0020220000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gurpal Singh

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Amritpal Singh

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

3)Dr Merry Saxena

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

4)Dr Sangeetha Annam

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :

ABSTRACT OPACITY ADJUSTABLE SOLAR PANEL The present invention unveils opacity-adjustable solar panel which is a groundbreaking innovation poised to revolutionize the field of solar energy. This next-generation solar panel seamlessly integrates photovoltaic cells with electrochromic technology, enabling precise control over the panel's opacity. It comprises of photovoltaic cells 102, liquid crystals 104, voltage source 106, controller 108 and supporting structures 110. The system operates by embedding liquid crystals within the photovoltaic cells, allowing real-time adjustments in response to changing environmental conditions. REFERENCE FIG 1

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : AI AND BLOCKCHAIN BASED SYSTEM FOR INSTITUTION TRANSPORT MANAGEMENT

(51) International classification :H04L0009320000, G06F0021640000, G06Q0050300000, G07B0015060000, G06Q0020380000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Chitkara Innovation Incubator Foundation
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Parineeta Dahiya
 Address of Applicant :B.E. (CSE), Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Jagdeep Sharma
 Address of Applicant :Manager, Chitkara Alumni Association Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

3)Santosh Bali
 Address of Applicant :Head, Doctoral Research Centre School of Management and Commerce, RIMT University, Mandi Gobindgarh, India Mandi Gobindgarh -----

4)Dr Ishu Sharma
 Address of Applicant :Assistant Professor-Research, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

(57) Abstract :
 ABSTRACT AI and Blockchain-Based System for Institution Transport Management The present disclosure introduces AI and Blockchain-Based System for Institution Transport Management 100, an innovative transportation system combining blockchain, AI, biometric identification, and GPS tracking technologies to revolutionize institutional transport management. The integration of blockchain system ensures the security and transparency of transactional data through distributed ledger technology. It comprises of blockchain system 102, InterPlanetary File System (IPFS) 104, biometric identification module 106, real-time GPS based tracking and notification module 108, AI module 110, AI based toll payment module 112, bus enhancement application 114, AI based route computation system 116, New Bus Requirement module 118, AI based contract renewal system 120, student dashboard 122, Fee Payment Module 124, security module 126 and communication module 128. REFERENCE FIG 1

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : PRECISION AGRICULTURE WITH CROP PREDICTION, IOT SENSORS AND BLOCKCHAIN

(51) International classification :G06Q0050020000, A01G0025160000, G06Q0010060000, G06Q0010100000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Pancham Singh
 Address of Applicant :Ajay Kumar Garg Engineering College, Ghaziabad, 27th Km Milestone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad - 201009 -----

2)MS. MRIGNAINY KANSAL
3)MS. KAMINI TANWAR
4)MS. MANISHA RAI
5)MR. KLLAVEYA JAIN
6)MS. GUNJAN SAXENA
7)MS. DHANSHRI PARIHAR
8)MS. ANSHIKA PURI
9)MR. ASHISH KUMAR
10)MR. PUSHKAL KUMAR SHUKLA

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Pancham Singh
 Address of Applicant :Ajay Kumar Garg Engineering College, Ghaziabad, 27th Km Milestone, Delhi-Meerut Expressway, P.O. Adhyatmik Nagar, Ghaziabad - 201009 -----

2)MS. MRIGNAINY KANSAL
 Address of Applicant :Department of Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India Ghaziabad -----

3)MS. KAMINI TANWAR
 Address of Applicant :Department of Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India Ghaziabad -----

4)MS. MANISHA RAI
 Address of Applicant :Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India Ghaziabad -----

5)MR. KLLAVEYA JAIN
 Address of Applicant :Department of Computer Science and Engineering, Netaji Subhas University of Technology (NSUT), Sec-3, Dwarka New Delhi- 110078, India Dwarka -----

6)MS. GUNJAN SAXENA
 Address of Applicant :Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India ghaziabad -----

7)MS. DHANSHRI PARIHAR
 Address of Applicant :Department of Computer Science& Engineering, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India ghaziabad -----

8)MS. ANSHIKA PURI
 Address of Applicant :Department of Computer Science & Information Technology, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India ghaziabad -----

9)MR. ASHISH KUMAR
 Address of Applicant :Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India ghaziabad -----

10)MR. PUSHKAL KUMAR SHUKLA
 Address of Applicant :Department of Computer Science & Engineering, Ajay Kumar Garg Engineering College, Ghaziabad Uttar Pradesh-201015, India ghaziabad -----

(57) Abstract :
 Smart agriculture uses new technology to assist farmers in growing crops more efficiently and producing more food. This recent research proposes a significant shift in how we predict crop growth by combining blockchain and the Internet of Things. Special tools, like cameras in the sky and sensors for things like temperature, humidity, and soil moisture, are being used. These gadgets provide important information about how the crops are doing and what the environment is like. Then, all this information is put into a smart program that uses fancy math to make predictions about how the crops. Moreover, using blockchain technology ensures that the information collected is reliable and private. It creates a visible and permanent record of all farming activities through a decentralized system, preventing unauthorized access and changes. This makes the information more trustworthy and makes it easier to follow the journey of produce from the farm to the final customer. An all-inclusive approach brings many advantages. With quick and accurate information, farmers can now make smart decisions about watering, adding fertilizers, and managing pests. The unchangeable record is a key part of making supply chain management better, allowing everyone involved to follow and confirm where agricultural products come from and their quality. In summary, this research introduces a modern way to change how we manage and predict crops in smart agriculture. It uses new technologies like blockchain and the Internet of Things. By gathering data in real-time, using smart predictions, and a secure blockchain system, the aim is to make farming much better. The goal is to increase how much we grow, do it in a way that lasts a long time, and make sure everyone involved is accountable for what they do.

No. of Pages : 19 No. of Claims : 10

(54) Title of the invention : A WISE MARKETING SYSTEM FOR GOOD CUSTOMER ENGAGEMENT THROUGH MACHINE LEARNING

(51) International classification :G06Q0030020000, G06N0020000000, H04M0003510000, G06N0005040000, G06Q0030000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Balraj Kumar
 Address of Applicant :Associate Professor & Assistant Dean, School of Computer Application, Lovely Professional University, Phagwara, Punjab -----
2)Dr. K. Sharath Babu
3)Dr. Suneetha Naisa
4)Dr. Narendra Jagannath Salunke
5)Dr. G. Venkat Narayanan
6)Avick Kumar Dey
7)Dr. Rishi Kant
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Balraj Kumar
 Address of Applicant :Associate Professor & Assistant Dean, School of Computer Application, Lovely Professional University, Phagwara, Punjab -----
2)Dr. K. Sharath Babu
 Address of Applicant :Professor & Principal, Department of MBA, Pulla Reddy Institute of Computer Science, Sangareddy, Telangana ----- --
3)Dr. Suneetha Naisa
 Address of Applicant :Associate Professor, Department of MBA, Pulla Reddy Institute of Computer Science, Sangareddy, Telangana ----- --
4)Dr. Narendra Jagannath Salunke
 Address of Applicant :Assistant Professor, Department of MBA, MVP Samaj's Karmaveer Adv. Baburao, Ganpatrao Thakare College of Engineering, Nashik -----
5)Dr. G. Venkat Narayanan
 Address of Applicant :Associate Professor, Department of Mathematics, St. Joseph's College of Engineering, Chennai -----
6)Avick Kumar Dey
 Address of Applicant :Assistant Professor & Head (Research & Development), Department of Computer Applications, DSMS College, Bidhannagar, Durgapur -----
7)Dr. Rishi Kant
 Address of Applicant :Assistant Professor, GNA University, Sri Hagobindgarh, Phagwara Hoshiarpur road, Phagwara, Punjab ----- --

(57) Abstract :
 With the use of machine learning, marketers can make better decisions by analyzing vast amounts of data and deriving detailed insights about the market, industry, societal trends, and client profiles. Personalized content, goods, and services are provided by businesses with the aid of machine learning algorithms. Speak recognition technologies and machine learning are being combined by call centers to improve customer service. By automatically classifying, extracting keywords, and determining sentiment and intent, this kind of machine learning technology transcribes and analyzes client calls. In order to enhance campaigns, make smarter judgments, and comprehend their target audience, marketers should leverage machine learning. Enhancing business efficiency and customer pleasure, it enables precise sales projections, customized marketing tactics, and targeted advertisements. Companies can improve customer satisfaction and loyalty by segmenting their customer base according to each person's unique requirements and preferences.

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : A PREPARATION METHOD OF NANOPARTICLES

(51) International classification :C01G0009020000, H01M0004620000, A01N0059160000, C02F0001280000, C02F0101200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Graphic Era (Deemed to Be University)
 Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Waseem Ahmad
 Address of Applicant :Department of Chemistry, Graphic Era (Deemed to be University), 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

2)Dr. Sanjay Kumar
 Address of Applicant :Department of Food Science & Technology, Graphic Era (Deemed to be University), 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

3)Dr. Vinod Kumar
 Address of Applicant :Department of Food Science & Technology, Graphic Era (Deemed to be University), 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

4)Dr. H.C. Joshi
 Address of Applicant :Department of Chemistry, Graphic Era (Deemed to be University), 566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----

(57) Abstract :
 The present invention relates to a rapid low cost, environmentally benevolent method for the development of potentially useful Zinc Oxide nanoparticles (ZnONPs) by utilizing the leaf extract of Pedilanthus Tithymaloides Plant. The ZnO NPs have very wide range of application. It is potentially useful in the waste water treatment. The Zinc oxide nanoparticles are characterized by various techniques, such as UV-Vis spectral analysis, Fourier Transform InfraRed spectra, and Scanning Electron Microscope (SEM) analysis. The natural material used in the present invention is available in the market.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008744 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CROWD ANALYSIS AND DENSITY ESTIMATION USING MACHINE LEARNING ALGORITHMS

(51) International classification :G06N0003040000, G06Q0010060000, G06K0009620000, G06Q0010100000, G06N0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr Vikas Kamra

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida -----

2)Aditya Vaishnav

3)Rehan Khan

4)Shubham Singh

5)Anilansh Verma

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Vikas Kamra

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida -----

2)Aditya Vaishnav

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----

3)Rehan Khan

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----

4)Shubham Singh

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----

5)Anilansh Verma

Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----

(57) Abstract :

In recent years, there has been a concerning rise in incidents of overcrowding in public spaces worldwide. Studies indicate that crowded conditions can lead to various safety and logistical challenges. To address this issue, our project aims to develop a reliable system for accurately detecting crowded areas. Public spaces often experience fluctuations in crowd density due to events, gatherings, or everyday activities, necessitating proactive measures to manage crowd flow effectively. Our system leverages advanced technologies, including convolutional neural networks (CNNs), to analyze video footage and detect patterns indicative of crowded conditions. We achieve high accuracy in identifying crowded areas by comparing 3 different algorithms namely Mask RCNN, YOLO v4, MobileNet SSD. This approach enables monitoring and alerts authorities to potential overcrowding situations, facilitating timely intervention and crowd management strategies. Furthermore, our research highlights the predictive capabilities of our models, demonstrating their ability to forecast crowded conditions based on historical data and environmental factors. This predictive analysis enhances the system's effectiveness in anticipating and addressing crowd-related challenges proactively. Crowd detection is essential for the development of crowd-centered management systems and serves as the cornerstone of effective crowd control measures. By providing accurate and timely detection of crowded areas, our system contributes to improving safety, optimizing resource allocation, and enhancing the overall experience for individuals in public spaces.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008751 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : REAL TIME DROWSINESS DETECTION SYSTEM USING FACIAL LANDMARKS BY CONSIDERING TRIFOLD BEHAVIOR MEASURES: EYE, MOUTH AND HEAD

(51) International classification :B60K0028060000, G08B0021060000, A61B0005110000, A61B0005180000, B60W0040080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RITIKA SOBTI

Address of Applicant :DAV COLLEGE, JALANDHAR -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RITIKA SOBTI

Address of Applicant :DAV COLLEGE, JALANDHAR -----

(57) Abstract :

A smart real time driver drowsiness detection system is proposed where, first, a pre-processing task including frame contrast enhancement to enhance the quality of detection in poor illumination places. The face region is then identified using the HOG (dlib model) technique, which extracts the vertical distance between the upper and lower lips, eyelids, and mouth by using the Eye Aspect Ratio (EAR) and Mouth Aspect Ratio (MAR) to determine the openness and closeness of the mouth and eyes in each frame, as well as the head orientation using the PNP algorithm in computer vision. The number of blinks, yawns, and head tilts are counted to assess the driver's condition. As a result, this will assist in detecting tiredness in advance and providing warning alerts in the form of alarms and pop-up window screen messages, and email and text messages on the authority's mobile device. Additionally, performance of the system is evaluated with maximum accuracy.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008753 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATED HISTOPATHOLOGY TISSUE PROCESSOR: ARDUINO-CONTROLLED STEPPER MOTOR SYSTEM WITH INTEGRATED SOFTWARE MODULE

(51) International classification :G01N0001310000, G01N0001300000, G06Q0010100000, G01N0001280000, G01N0035000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Amberpreet Kaur Khangura
 Address of Applicant :MM College of dental sciences and research Mullana Ambala Ambala -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Harvansh Singh Judge Institute of dental sciences and hospital Panjab University Chandigarh
 Address of Applicant :Panjab University Sector 25 Chandigarh Chandigarh -----

2)Shally Gupta
 Address of Applicant :Dr Harvansh Singh Judge Institute of dental sciences and hospital sector 25 Panjab university Chandigarh Chandigarh -----

3)Amberpreet Kaur Khangura
 Address of Applicant :MM College of dental sciences and research Mullana Ambala Ambala -----

4)Saksham Gupta
 Address of Applicant :VIT Chennai Chennai -----

5)Arshpreet Singh
 Address of Applicant :Barnala Punjab Barnala -----

(57) Abstract :

Tissue processing is a technique which is used to make the tissue more appropriate for embedding as well as cutting for microscopic examination in the diagnostic laboratory. For microscopic evaluation of cells and tissues, a very thin and high quality sections are required to mount on glass slides for the analysis of normal and abnormal structures. Automated tissue processor is the machine which plays a pivotal role in the preparation of tissue by passing them through dehydrating as well as clearing fluids. This project introduces an innovative Automated Tissue Processor for diagnostic purpose in histopathology labs. Utilizing Arduino and Stepper Motor Control, the system automates sample rotation within dishes. An integrated software module enhances user interaction, providing features such as rotation programming, real-time notifications, a comprehensive dashboard, historical records, and advanced security. This holistic approach aims to elevate accuracy and efficiency in tissue processing.

No. of Pages : 9 No. of Claims : 6

(54) Title of the invention : SYSTEM AND METHOD FOR EARLY DIAGNOSIS OF DIABETIC RETINOPATHY IN A PATIENT USING CROSS-PLATFORM APPLICATION

(51) International classification :G06T0007000000, G06N0003040000, A61B0003000000, A61P0027020000, G06N0003080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN
 Address of Applicant :University of Petroleum and Energy Studies (UPES), Energy acres, Bidholi Campus (248007), Dehradun, Uttarakhand. Dehradun -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Shamik Tiwari
 Address of Applicant :University of Petroleum and Energy Studies (UPES), Energy acres, Bidholi Campus (248007), Dehradun, Uttarakhand. Dehradun -----

2)Dr. Anurag Jain
 Address of Applicant :University of Petroleum and Energy Studies (UPES), Energy acres, Bidholi Campus (248007), Dehradun, Uttarakhand. Dehradun -----

3)Dr. Neelu Jyothi Ahuja
 Address of Applicant :University of Petroleum and Energy Studies (UPES), Energy acres, Bidholi Campus (248007), Dehradun, Uttarakhand. Dehradun -----

4)Dr. Amar Shukla
 Address of Applicant :University of Petroleum and Energy Studies (UPES), Energy acres, Bidholi Campus (248007), Dehradun, Uttarakhand. Dehradun -----

(57) Abstract :
 SYSTEM AND METHOD FOR EARLY DIAGNOSIS OF DIABETIC RETINOPATHY IN A PATIENT USING CROSS-PLATFORM APPLICATION A system (100) and method (400) for early diagnosis of Diabetic Retinopathy is disclosed. The method (400) includes capturing a fundus image of the patient’s retina. The captured image is then transferred to a lightweight deep learning model (110), which is trained using transfer learning techniques. The received image is processed to generate a result of diagnosis of diabetic retinopathy, which is categorized into diabetic retinopathy and non- diabetic retinopathy. The results of the diabetic retinopathy are displayed on a user interface (106) of a cross-platform application (104). The identified diabetic retinopathy cases are categorized into different stages namely mild, moderate, severe and proliferative. Further, the results of diabetic retinopathy along with its stages is transmitted to one or more remote user.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007569 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : NOVEL METHOD FOR ENCAPSULATION OF CEDARWOOD OIL

(51) International classification :A01N25/28, A23P10/30, A61K8/11, A61K9/50, B01J13/02, C11B9/00

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)MJP ROHILKHAND UNIVERSITY

Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA Bareilly -----

2)Prof K.P. SINGH

3)Dr AMIT KUMAR VERMA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof K.P. SINGH

Address of Applicant :VICE-CHANCELLOR'S SECRETARIAT, MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA

Bareilly -----

2)Dr AMIT KUMAR VERMA

Address of Applicant :ASSISTANT PROFESSOR, DEPT. OF PHARMACY, MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----

(57) Abstract :

Novel Method for Encapsulation of Cedarwood Oil is the proposed invention. The present invention relates to the preparation of microcapsules of cedarwood oil by emission diffusion methods. GC analysis of cedarwood oil done by the Gas Liquid Chromatography Instrument of Alizan Technology with packed column equipped with FID detector at temperature of 40°C. The GLC (Gas Liquid Chromatography) detects the presence of various components as Cedrene is about 1.29% in the cedarwood oil and Himachaline is about 1.40% in the sample. The other compound present in the cedarwood oil is terpineol whose peak observed at the retention time of 17.677 minutes.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : A MOLECULAR TOXICOLOGY FOR UNDERSTANDING THE MOLECULAR MECHANISMS BY WHICH TOXINS INDUCE CARCINOGENESIS

(51) International classification :G16B0005000000, H04W0004029000, A61Q0019100000, A61K0031138000, G16B0020200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Amit Kumar Verma
 Address of Applicant :Assistant Professor, Dept. of Pharmacy, MJPRU, Bareilly, India Bareilly -----

2)Dr Amit Singh
 Address of Applicant :Associate Professor, Department of Law, MJPRU, Bareilly, India Bareilly -----

3)Dr Saurabh Mishra
 Address of Applicant :Assistant Professor, Department of Pharmacy, MJP Rohilkhand University, Bareilly, India Bareilly ---

4)Prof S K Pandey
 Address of Applicant :Professor, Department of Applied Chemistry, MJPRU, Bareilly, India Bareilly -----

5)Prof Sudhir Kumar
 Address of Applicant :Professor, Department of Applied Physics, MJPRU, Bareilly, India. Bareilly -----

(57) Abstract :
 A Molecular Toxicology for understanding the molecular mechanisms by which toxins induce carcinogenesis is the proposed invention. The proposed invention focuses on studying the molecular mechanisms that are responsible for inducing carcinogenesis. The invention focuses on analyzing the mechanisms by which toxins induce carcinogenesis using algorithms of molecular toxicology.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007574 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MINIATURISED ELECTROCHEMICAL MICROFLUIDIC DEVICE (MEMD) AND PLATFORMS

(51) International classification :B01L0003000000, H04L0005000000, G01N0001020000, B33Y0070000000, B33Y0080000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI
 Address of Applicant :Vidya Vihar, Pilani, Rajasthan - 333031, India Pilani -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Goel Sanket
 Address of Applicant :J-222, Department of EEE, BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet, Hyderabad, Telangana Pin:500078 India Hyderabad -----
2)Ms. K Ramya
 Address of Applicant :J-204, Department of EEE, BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet, Hyderabad, Telangana Pin:500078 India Hyderabad -----
3)Dr. Amreen Khairunnisa
 Address of Applicant :J-203, Department of EEE, BITS-Pilani, Hyderabad Campus, Jawahar Nagar, Shameerpet, Hyderabad, Telangana Pin:500078 India Hyderabad -----

(57) Abstract :

The present invention discloses a MEMD designed/fabricated using SLA printing technique which affords/facilitates interchangeability of electrodes. The MEMD contains a microfluidic channel with dimensions of 2 cm in length and a depth of 0.3 cm, as minimum as possible and to have three adaptable compartments that are separated by with finest resolution of 0.1 cm from each other to enable the integration of the microelectrodes that can be interchanged according to user needs with no additional labor efforts. The microelectrodes inserted within the compartments possess full adaptability for multi-substrates and can be customized according to the specific analyte being detected.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007599 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A HANDHELD MEDICAL ELECTRO BAND-AID DEVICE FOR ON SPOT WOUND PROTECTION AND HEALING

(51) International classification	:A61L15/44, A61M5/178, B05B5/025, B25B27/30	(71)Name of Applicant :	1)Indian Institute of Information Technology, Allahabad Address of Applicant :4, IIIT Rd, Indian Institute of Information Technology, Jhalwa, Prayagraj, Saha, Urf Pipalgaon, Uttar Pradesh - 211012 -----
(86) International Application No	:NA	Name of Applicant : NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :	1)Dr. Amit Prabhakar Address of Applicant :Indian Institute of Information Technology, Allahabad -----
(87) International Publication No	: NA	2)Amar Dhvaj Address of Applicant :Indian Institute of Information Technology, Allahabad -----	
(61) Patent of Addition to Application Number	:NA		
Filing Date	:NA		
(62) Divisional to Application Number	:NA		
Filing Date	:NA		

(57) Abstract :

This invention describes an the Handheld Medical ElectroBand-Aid device designed for immediate wound protection and healing. For severely injured casualties, the proposed on-spot solution offers a protective, antibacterial, biocompatible, and environmentally friendly ElectroBand-Aid. This small, portable, and battery-operated device electrodeposits a nanofibrous mesh of biocompatible and environmentally friendly polymer. This mesh forms a physical barrier over the wound, preventing pathogen entry and maintaining a moist environment to expedite the healing process. In emergency situations, access to clean cloth or proper drapes is often limited, leading to unhygienic wound coverings and severe infections. The ElectroBand-Aid addresses this issue by providing a simple, portable, and handheld device capable of electro-spraying an antibacterial-antifungal solution to clean the wound. Additionally, it deploys an electro-deposited nanofibrous mesh over the wound without direct contact, ensuring a painless procedure and mitigating the risk of complications such as sepsis, gangrene, and organ failure.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : A SMART DEVICE FOR HOARDING MONITORING & SENDING ALERTS AND SYSTEM THEREOF

<p>(51) International classification :G06Q0030020000, H04L0067120000, E04H0012220000, H04N0021810000, B23K0103180000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Surjeet Dalal Address of Applicant :Amity School of Engineering and Technology, Amity University Haryana, Gurugram, Manesar, Haryana 122 413, India Manesar ----- 2)Dr. Vivek Jaglan 3)Dr. Uma Rani 4)Dr. Harish Rohil 5)Shilpa Suhag 6)Sarika Madavi 7)Garima 8)Tanvi Rustagi 9)Dr. Neeraj Dahiya 10)Amit Malik Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Surjeet Dalal Address of Applicant :Amity School of Engineering and Technology, Amity University Haryana, Gurugram, Manesar, Haryana 122 413, India Manesar ----- 2)Dr. Vivek Jaglan Address of Applicant :Amity School of Engineering and Technology, Amity University Madhya Pradesh, Maharajpura (Opposite Airport), Gwalior – 474 005, Madhya Pradesh, India Gwalior ----- 3)Dr. Uma Rani Address of Applicant :World College of Technology and Management, Farukh Nagar (Kherakhurrampur), Gurugram - 122506 Haryana, India Gurugram ----- 4)Dr. Harish Rohil Address of Applicant :Department of Computer Science and Engineering, Ch. Devi Lal University, Sirsa -125055, Haryana, India Sirsa ----- 5)Shilpa Suhag Address of Applicant :World College of Technology and Management, Farukh Nagar (Kherakhurrampur), Gurugram - 122506 Haryana, India Gurugram ----- 6)Sarika Madavi Address of Applicant :World College of Technology and Management, Farukh Nagar (Kherakhurrampur), Gurugram - 122506 Haryana, India Gurugram ----- 7)Garima Address of Applicant :Dr. Akhilesh Das Gupta Institute of Technology and Management, FC-26, Panduk Shila Marg, Zero Pusta Rd, Shastri Park, Shahdara, New Delhi, Delhi 110053, India New Delhi ----- 8)Tanvi Rustagi Address of Applicant :World College of Technology and Management, Farukh Nagar (Kherakhurrampur), Gurugram - 122506 Haryana, India Gurugram ----- 9)Dr. Neeraj Dahiya Address of Applicant :SRM University, Delhi-NCR, 39, Rajiv Gandhi Education City, Sonipat - 131029, Haryana, India Sonipat ----- 10)Amit Malik Address of Applicant :SRM University, Delhi-NCR, 39, Rajiv Gandhi Education City, Sonipat - 131029, Haryana, India Sonipat -----</p>
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(57) Abstract :
The present invention relates to an innovative a smart internet-of-thing (IoT) enabled hoarding monitoring device comprises a. Internet-of-thing (IOT) device (101); b. Supporting Frame (102) typically made of steel or aluminum and provides stability and structural integrity; c. Facing Material for surface to which the advertising content is applied (103); d. Catwalks and Access Points (104) include catwalks, ladders, or other access points to allow workers to safely reach the facing material for cleaning, repairs, and the installation of new advertisements. Further, the present invention also relates to a system for monitoring the status of the hoardings (101), an object device (201), and a cloud server (202).

No. of Pages : 25 No. of Claims : 7

(54) Title of the invention : TWO-DIMENSIONAL MATERIAL-ENHANCED FIBER BRAGG GRATING SENSOR FOR CHEMICAL DETECTION

<p>(51) International classification :A61B0005000000, G01L0001240000, G02B0006020000, A61B0090000000, G01D0005353000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. PURNENDU SHEKHAR PANDEY Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT, PLOT NO.2, APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 GREATER NOIDA ----- 2)DR. SANJEEV KUMAR RAGHUWANSHI 3)DR. AZHAR SHADAB 4)MD. DANISH NADEEM 5)CHANDAN KUMAR 6)DR. RITESH KUMAR 7)MD TAUSEEF IQBAL ANSARI 8)PRASHANT KUMAR Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. PURNENDU SHEKHAR PANDEY Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT, PLOT NO.2, APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 GREATER NOIDA ----- 2)DR. SANJEEV KUMAR RAGHUWANSHI Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, JHARKHAND 826004 Dhanbad ----- 3)DR. AZHAR SHADAB Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT, PLOT NO.2, APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 GREATER NOIDA ----- 4)MD. DANISH NADEEM Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, JHARKHAND 826004 Dhanbad ----- 5)CHANDAN KUMAR Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, JHARKHAND 826004 Dhanbad ----- 6)DR. RITESH KUMAR Address of Applicant :SHRI PHANISHWAR NATH RENU ENGINEERING COLLEGE ARARIA, BIHAR, 854318 Araria ----- 7)MD TAUSEEF IQBAL ANSARI Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES),DHANBAD, JHARKHAND 826004 Dhanbad ----- 8)PRASHANT KUMAR Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES),DHANBAD, JHARKHAND 826004 Dhanbad -----</p>
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(57) Abstract :
Two-Dimensional Material-Enhanced Fiber Bragg Grating Sensor for Chemical Detection Abstract The present disclosure relates to a sensor to detect specific chemicals, utilizing a fibre Bragg grating (FBG) core. The FBG core reflects specific wavelengths of light. Additionally, coating of the FBG core with two-dimensional materials is performed, materials are highly sensitive to chemical interactions. Said coating induces a change in the reflected wavelength of light in response to particular chemicals. The system includes a light source to emit light towards the FBG core and a detector that is operatively connected to the FBG core. The detector's role is to measure any changes in the reflected wavelengths. Additionally, a signal processor is configured to analyse said wavelength changes. The primary function of said signal processor is to detect the presence of specific chemicals.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : A SYSTEM AND METHOD FOR DETECTING WATER TURBIDITY

<p>(51) International classification :G01N0021530000, A61B0005145000, G01N0015000000, C02F0001520000, G01N0015060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Gambhir Singh Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 2)Dr. Indradeep Verma 3)Dr. Shipra Srivastava 4)Mr. Anupam Kumar Saini 5)Mr. Shiv Veer Singh 6)Dr.Nancy Agarwal 7)Ms.Shikha Srivastava 8)Dr. Renu Kaushik Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Gambhir Singh Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 2)Dr. Indradeep Verma Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 3)Dr. Shipra Srivastava Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 4)Mr. Anupam Kumar Saini Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 5)Mr. Shiv Veer Singh Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 6)Dr.Nancy Agarwal Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 7)Ms.Shikha Srivastava Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- --- 8)Dr. Renu Kaushik Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 ----- ---</p>
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(57) Abstract :
ABSTRACT The present invention relates to a system (100) and method for detecting water turbidity. The system (100) for detecting water turbidity comprises an optical sensor, a signal processing module, an alert system (100) module, a user interface module, a remote monitoring and control module, an environmental interference mitigation module, a power management module, a calibration and maintenance module, a security module and a compliance module. The optical sensor is configured to enhance the accuracy of turbidity measurements by capturing and quantifying the amount of light scattered or absorbed by particles in the water. The signal processing module with real-time processing capabilities configured to allow for immediate response to changes in water turbidity levels. The alert module that enables users to set and customize turbidity thresholds, triggering alerts when predefined limits are exceeded. The user interface module is configured to provide a user-friendly graphical interface for operators, displaying real-time turbidity levels, historical data, and trend analyses.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : A SMART E-LIST SYSTEM

(51) International classification :G06N0020000000, G06Q0030020000, G06F0003048200, G06F0009451000, G06N0005040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Indradeep Verma
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

2)Dr. Gambhir Singh
3)Dr. Shipra Srivastava
4)Dr.Nancy Agarwal
5)Mr. Anupam Kumar Saini
6)Mr. Shiv Veer Singh
7)Dr. Renu Kaushik
8)Ms.Shikha Srivastava
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Indradeep Verma
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

2)Dr. Gambhir Singh
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

3)Dr. Shipra Srivastava
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

4)Dr.Nancy Agarwal
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

5)Mr. Anupam Kumar Saini
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

6)Mr. Shiv Veer Singh
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

7)Dr. Renu Kaushik
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

8)Ms.Shikha Srivastava
 Address of Applicant :Department of computer science and engineering (IOT), GNIOT, Knowledge Park II, Greater Noida, Uttar Pradesh 201310 -----

(57) Abstract :
 ABSTRACT The present invention relates to a smart e-list system (100). The smart electronic list system (100) comprise an artificial intelligence engine, a user interface, a storage component, a database, a notification unit and an integration module. The artificial intelligence engine is configured to prioritize said electronic list items based on relevance, deadlines, and user preferences. The user interface providing interaction with said electronic list items, wherein the prioritization determined by the artificial intelligence engine is reflected in said user interface. The storage component to store electronic list data and the prioritization determined by the artificial intelligence engine. The database for storing and managing data related to user accounts, electronic lists, preferences, and historical information, ensuring data integrity and quick retrieval. The notification unit is configured to generate and deliver contextual notifications to users. The notifications provide timely and relevant updates about list items, deadlines, and user interactions.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008170 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD TO DEVELOP CLOTHING TAGS FOR VISUALLY IMPAIRED PEOPLE

(51) International classification :G09B0021000000, G06Q0030060000, A61H0003060000, G09B0021020000, B41J0003320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Manipal University Jaipur

Address of Applicant :Manipal University Jaipur, Off Jaipur-Ajmer Expressway, Post: Dehmi Kalan, Jaipur-303007, Rajasthan, India Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pratibha Mishra

Address of Applicant :Department of Fashion Design, Manipal University Jaipur, Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan 303007 Jaipur -----

2)Deepshikha Sharma

Address of Applicant :Department of Fashion Design, Manipal University Jaipur, Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan 303007 Jaipur -----

(57) Abstract :

The present invention relates to a method to develop clothing tags for visually impaired people. In Indian context it is usually said that Fashion of often not accessible for visually impaired people. How can clothing be more easily worn by those who are blind or have vision impairments. The color and softness of a fabric, the empowering sentiments received by the bearer when one put on favorite outfit. Brailing tags will empower visually impaired people. Our study will study that how they face to tremendous pains to identify and comprehend what things are visually acceptable despite the fact that they themselves could not see them. To promote diversity and accessibility, it is crucial to include people with visual impairments in the shopping experience. The design and use of retail tags for apparel that are specifically made for blind people will be explored. The suggested tags use a variety of accessibility elements in an effort to offer a seamless and independent shopping experience. These braille tags are a critical component because it will provide tactile information via raised dots, enabling blind customers to understand crucial information including brand, size, care instructions, color, fabric type and composition. Development of braille tags will be done in that way it will assist as care label and shopping tag.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008175 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRONICS SYSTEM FOR MANAGING MULTIPLE BATTERY PACKS IN AN ELECTRIC VEHICLE AND ITS METHOD THEREOF

(51) International classification :B60L53/20, B60L58/18, G01R31/36, H01M10/42, H01M10/48, H02J7/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Tritronics Emotive Pvt Ltd
Address of Applicant :Khasra No. 41 , Village Mangali Mohhbatpur, Hisar, Haryana - 125005, India Hisar -----

Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Rahul Singal
Address of Applicant :Villa No. 23 , Arcity Park , Sector 9-11, Hisar, Haryana - 125001 Hisar -----

(57) Abstract :

The present invention generally relates to an electronics system for managing multiple battery packs in an electric vehicle. The system comprises a plurality of energy storage devices (ESDs) integrated into an electric vehicle; a plurality of sensors strategically placed within each ESD to monitor a set of parameters selected from state of charge (SoC), state of health (SoH), temperature, and voltage; a central controller interconnected to the ESDs and sensors to process data received from ESD Management Units (EMUs), sensors, and other vehicle systems, the central controller employing an optimization technique to optimize power distribution among the ESDs; a user interface integrated into a vehicle's dashboard or infotainment system, allowing the driver to monitor and configure ESD management settings; and an onboard charging unit, an electro-mechanical/electronic unit configured to charge the ESDs intelligently based on system requirements.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008187 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : THE IMPORTANCE OF THE VIRTUAL SUPPLY CHAIN TOWARDS THE FACILITATION OF SHORT-TERM BUSINESS COLLABORATIONS

(51) International classification :G06Q0010060000, G06Q0010080000, G06Q0010040000, G06Q0010100000, G06Q0040000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Mandeep Mittal
 Address of Applicant :Professor and Head, Department of Mathematics, School of Computer Science Engineering and Technology, Bennett University, Techzone-II, Greater Noida-201310, UP, India -----
2)Prof. Dr. Nita H Shah
3)Deep Kamal Sharma
4)Krishan Pal
5)Ajay Singh Yadav
6)Ashish Negi
7)Karan Pathak
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Mandeep Mittal
 Address of Applicant :Professor and Head, Department of Mathematics, School of Computer Science Engineering and Technology, Bennett University, Techzone-II, Greater Noida-201310, UP, India -----
2)Prof. Dr. Nita H Shah
 Address of Applicant :Department of Mathematics, Gujarat University, Ahmedabad-380009, Gujarat, India -----
3)Deep Kamal Sharma
 Address of Applicant :Research Scholar, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad-201204, UP, India -----
4)Krishan Pal
 Address of Applicant :Research Scholar, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad-201204, UP, India -----
5)Ajay Singh Yadav
 Address of Applicant :Associate Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad-201204, UP, India -----
6)Ashish Negi
 Address of Applicant :Research Scholar, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad-201204, UP, India -----
7)Karan Pathak
 Address of Applicant :Assistant Professor, Department of CDC & Placement, SRM Institute of Science and Technology, Delhi-NCR Campus, Modinagar, Ghaziabad-201204, UP, India -----

(57) Abstract :
 The Virtual Supply Chain is a transformative innovation that revolutionizes traditional supply chain management. By leveraging advanced technologies and real-time data exchange, it enhances business agility and adaptability, allowing companies to respond swiftly to market changes and optimize resource allocation. Through unprecedented visibility and seamless collaboration, it reduces operational costs, minimizes waste, and fosters sustainability. This system caters to the demands of short-term business collaborations by accommodating changing requirements and eliminating bottlenecks. It aligns with evolving consumer preferences for customization and fast delivery, enhancing customer satisfaction. Moreover, the Virtual Supply Chain enhances supply chain resilience by diversifying sources and maintaining business continuity during disruptions. Collaboration among stakeholders results in increased efficiency and reduced environmental impact. Ultimately, this innovation transforms industries, drives innovation, and fosters a future where efficiency, collaboration, and sustainability are paramount in global commerce.
 Accompanied Drawing [FIGS. 1-2]

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008493 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SIMULATION-BASED E-LEARNING SYSTEM FOR MANAGEMENT DECISION AND ITS EFFECT.

(51) International classification :G06Q0010060000, G09B0005000000, G09B0007000000, G09B0007040000, G09B0019180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Preeti Sharma

Address of Applicant :Associate Professor, Sharda School of Business Studies, Sharda University, Noida, Uttar Pradesh, Indian-201310 -----

2)Dr. Apoorva Verma

3)Dr. Arnab Chakraborty

4)Prof (Dr.) Aparajita Das Gupta Amist

5)Dr. Bhakti Ranjit Panwar

6)Dr. Dattatray G. Takale

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Preeti Sharma

Address of Applicant :Associate Professor, Sharda School of Business Studies, Sharda University, Noida, Uttar Pradesh, Indian-201310 -----

2)Dr. Apoorva Verma

Address of Applicant :Assistant Professor, Sharda School of Business Studies, Sharda University, Noida, Uttar Pradesh, Indian-201310 -----

3)Dr. Arnab Chakraborty

Address of Applicant :Associate Professor, School of Leadership and Management, Manav Rachna International Institute of Research and Sciences, Faridabad, Haryana, Indian-121004 -----

4)Prof (Dr.) Aparajita Das Gupta Amist

Address of Applicant :Dean, Amity Global Business School, Amity University, Noida, Uttar Pradesh, Indian-201304 -----

5)Dr. Bhakti Ranjit Panwar

Address of Applicant :Associate Professor, School of Leadership and Management, Manav Rachna International Institute of Research and Sciences, Faridabad, Haryana, Indian-121004 -----

6)Dr. Dattatray G. Takale

Address of Applicant :Assistant Professor, VIIT Pune, Pune, Maharashtra, Indian, 411048 -----

(57) Abstract :

This invention describes a simulation-based e-learning system revolutionizing management education. By immersing users in realistic business scenarios, it cultivates essential decision-making skills vital for navigating today's dynamic business environment. Key features include Simulation Design, crafting scenarios for strategic planning, resource allocation, and crisis response. The E-Learning Platform Development ensures an intuitive interface with multimedia integration, while Skill Assessment and Adaptive Learning Paths tailor learning experiences to individual needs. Effectiveness Evaluation and Long-Term Impact Analysis measure skill transfer and organizational performance improvements. User Engagement and Satisfaction components ensure continuous improvement based on user feedback. This innovative approach bridges the gap between theoretical knowledge and practical application, offering managers a comprehensive and personalized learning experience.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : IN VITRO SHOOT ELONGATION AND BUD SPROUTING IN MORUS ALBA L. WITH ASPARAGINE, GLUTAMINE, CYTOKININ, AND AUXIN

<p>(51) International classification :A01H0004000000, A61K0036605000, A01N0043380000, A01G0007040000, C12Q0001020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Maharishi Arvind University Address of Applicant :Mundiyaramsar, Sirsi Road Near Bindayka Industrial Area, Jaipur, Rajasthan, Pin Code: 302012 ----- 2)Dr. Shiv Kumar Singh 3)Dr. Itishri Bhati 4)Dr. Neetu Sharma 5)Mr. Manoj Kumar Gupta 6)Dr. Vijendra Pratap Singh Shekhawat 7)Dr Vineet Soni 8)Dr. Ramesh chand Swami 9)Dr. Anjoo Chauhan Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Shiv Kumar Singh Address of Applicant :Associate Professor,Department of Botany, Maharishi Arvind University, Mundiyaramsar, Sirsi Road Near Bindayka Industrial Area, Rajasthan Jaipur. 302012 ----- 2)Dr. Itishri Bhati Address of Applicant :Associate Professor, St Wilfreds PG College Near Technology Park, Vashishtha Marg, Shipra Path, Ward 27, Sector 5, Mansarovar, Jaipur, Rajasthan, Pin Code: 302020. ----- 3)Dr. Neetu Sharma Address of Applicant :Associate Professor, Department of English, Maharishi Arvind University, Mundiyaramsar , Sirsi Road Near Bindayka Industrial Area, Jaipur, Rajasthan, Pin Code: 302012 ----- 4)Mr. Manoj Kumar Gupta Address of Applicant :Assistant Professor, Department of Physics, Maharishi Arvind University, Mundiyaramsar , Sirsi Road Near Bindayka Industrial Area, Jaipur, Rajasthan, Pin Code: 302012 ----- 5)Dr. Vijendra Pratap Singh Shekhawat Address of Applicant :Assistant Prof. Department of Botany, R.D. & S.H. National College & S.W.A. Science College, Bandra West, Maharashtra, Pin Code: 400050 ----- 6)Dr Vineet Soni Address of Applicant :Head & Associate Professor, Department of Botany Mohanlal Sukhadiya University, Udaipur, Rajasthan, Pin Code: 313001. ----- 7)Dr. Ramesh chand Swami Address of Applicant :Assistant Professor, Botany, SSG Pareek PG College, Jaipur, Rajasthan, Pin Code: 302016 ----- 8)Dr. Anjoo Chauhan Address of Applicant :Assistant Professor, Faculty of commerce and management, Maharishi Arvind University, Mundiyaramsar , Sirsi Road Near Bindayka Industrial Area, Jaipur, Rajasthan, Pin Code: 302012 -----</p>
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(57) Abstract :

The present invention relates to the novel tissue culture technique for efficient propagation of Morus alba L. through the optimization of growth regulators and amino acids. The methodology involves the utilization of combinations of auxins, cytokinins, glutamine, and asparagine to promote rapid shoot elongation and axillary bud sprouting. Rigorous surface sterilization protocols ensure contamination-free culture initiation, preserving genetic fidelity and consistency in plant characteristics. Tailored growth conditions and nutrient optimization strategies enhance the growth potential of explants, shortening the propagation cycle. The scalability of this technique enables mass production of Morus alba L., meeting the demand for this economically significant plant species. The instant invention holds promising role for the commercial cultivation and propagation of Morus alba L., offering potential benefits for horticulture and agriculture industries.

No. of Pages : 18 No. of Claims : 9

(54) Title of the invention : A PORTABLE ALGINATE DISPENSING AND MIXING DEVICE

(51) International classification :A47J0031440000, B67D0001080000, A61K0006900000, F25D0023120000, B08B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Santosh Deemed to be University
 Address of Applicant :Santosh Deemed To Be University, No 1, Santosh Nagar, Ghaziabad - 201009, Uttar Pradesh, India Ghaziabad -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Akshay Bhargav
 Address of Applicant :Dean, Santosh Dental College and Hospital, Santosh Deemed to be University, No 1, Santosh Nagar, Ghaziabad - 201009, Uttar Pradesh, India Ghaziabad -----

2)Dr Neeti Mittal
 Address of Applicant :Deputy Dean Research-Dental Santosh Dental College and Hospital, Santosh Deemed to be University, No 1, Santosh Nagar, Ghaziabad - 201009, Uttar Pradesh, India Ghaziabad -----

3)Dr Chetna Arora
 Address of Applicant :Professor, Conservative Dentistry and Endodontics Santosh Dental College and Hospital, Santosh Deemed to be University, No 1, Santosh Nagar, Ghaziabad - 201009, Uttar Pradesh, India Ghaziabad -----

4)Dr. Rajiv Ahluwalia
 Address of Applicant :Professor & HoD, Orthodontics Santosh Dental College and Hospital Santosh Deemed to be University, No 1, Santosh Nagar, Ghaziabad - 201009, Uttar Pradesh, India Ghaziabad -----

(57) Abstract :
 The present invention relates to a portable alginate dispensing device, ; i) A clean water dispenser (101) with a tap (103), wherein said dispenser (101) ensures a reliable and readily available source of clean water for mixing alginate; ii) An insulation sleeve (105) with a transparent window in association with said water dispenser (101) ensures temperature maintenance and prevents heating up of water in summers allowing visibility to check for water level inside a container; iii) A dental stone dispenser (107) assembled beneath the water dispenser (101) within said device, wherein said dispenser (107) accurately dispenses the amount of stone required for dental procedures; iv) An alginate dispenser (109) placed on the opposite side of said dental stone dispenser (107) below the water dispenser (101), wherein said alginate dispenser (109) accurately measures and dispenses the required amount of alginate for each impression. v) A waste collection unit (111) equipped with soft closure and separate containers for collecting waste or any disposables as per standard biomedical waste collection norms and ensuring reduction in contamination risks. vi) Atleast one storage unit (113) placed adjacent to said waste collection unit (111) to store necessary items required during the dental procedures, wherein one of said units (113) has a provision for humidifier that will enable storing impressions while providing sufficient humidity to prevent distortion. Fig. 1

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007600 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HAND-SIZE THERMO-CYCLER FOR TEMPERATURE-BASED BIO-DIAGNOSTICS CHEMICAL REACTIONS AND OTHER DIVERSE APPLICATIONS

(51) International classification :B01L0003000000, B01L0007000000, F16K0099000000, G01N0027447000, C12M0003060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Information Technology, Allahabad

Address of Applicant :Devghat, Jhalwa, Allahabad-211015, U. P. India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Amit Prabhakar

Address of Applicant :D-28 (Faculty residence area); Indian institute of Information Technology Allahabad (IIIT Allahabad); Deoghat; Jhalwa; Prayagraj, Allahabad, Uttar Pradesh, 211015 ----

2)Mahesh Kumar

Address of Applicant :S/O Indradev Prasad, Manpur Pehani, Gaya, Bihar-823003 -----

3)Priyanka Kumari

Address of Applicant :D/O Chhotelal, Vill-Bhuptipatti, Post-Shivapar, Dist-Jaunpur, Uttar Pradesh, 222001 -----

4)Gyanendra Chaudhary

Address of Applicant :S/O Ashok Kumar Chaudhary Jasaipur, Post- Captanganj, Ratas Urf Kaptanganj , Captainganj, Basti, Uttar Pradesh, 272131 -----

5)Dr. Deepti Verma

Address of Applicant :c/o Suresh Chandra Verma, 25/45, L.I.C. Colony, Tagore Town, Prayagraj Prayagraj-211002, U. P. INDIA. -----

6)Dr. Sanjai Singh

Address of Applicant :E-01, IIIT Allahabad, Devghat, Jhalwa, Prayagraj (Allahabad), Uttar Pradesh, India - 211015 -----

(57) Abstract :

This invention presents a microfluidics chip featuring integrated temperature and light control capabilities, catering to researchers' needs for precise environmental manipulation in biological, chemical, and physical studies. The chip comprises tiny chambers, channels, and sensors for fluid control and temperature/light monitoring. Temperature control relies on an Arduino Uno-based microcontroller system. Micro-scale LEDs manage light conditions. Advanced microfabrication techniques are employed to design and manufacture the chip, ensuring convenient sample loading and collection through fluidic inlets/outlets. It addresses limitations in existing microfluidic systems, known for their lack of precision, dynamic regulation, and spatial control. Seamlessly integrating temperature and light control elements into the chip, such as miniature heaters and LEDs, eliminates the need for external equipment, simplifying experimental setups and bolstering reproducibility. Multifunctional PDMS Based microfluidic chip has vast potential for various scientific fields, facilitating nuanced investigations into temperature and light's effects on biological, chemical, and photonic processes.

No. of Pages : 25 No. of Claims : 9

(54) Title of the invention : A PRESSURE-RESISTANT ROBOTIC ARM FOR DEEP-SEA EXPLORATION AND SAMPLE COLLECTION

<p>(51) International classification :B25J0009160000, A61B0090000000, A61B0017000000, B25J0009040000, B25J0011000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)The NorthCap University Address of Applicant :Huda, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Yogita Gigras Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>2)Dr. Vandana Khanna Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>3)Ms. Harshita Bajaj Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>4)Ms. Jasleen Kaur Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>5)Mr. Mitesh Kapil Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p> <p>6)Mr. Vineet Sharma Address of Applicant :The NorthCap University, Sector-23A, Gurugram, Haryana – 122017, India Gurugram -----</p>
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(57) Abstract :
A PRESSURE-RESISTANT ROBOTIC ARM FOR DEEP-SEA EXPLORATION AND SAMPLE COLLECTION Accordingly, embodiments herein disclose a pressure-resistant robotic arm for deep-sea exploration and sample collection. The pressure-resistant robotic arm (100) comprises a corrosion-resistant base unit (2); and a waterproof storage compartment (3) designed to integrate with the corrosion-resistant base unit (2). Further, the proposed robotic arm (100) may include a plurality of servo motors (5, 7, 9) designed to integrate with the base unit (2) using various joints (1, 4, 6, 8). Followed by, a plurality of flexible grippers (10) for versatile sample collection is designed to place on opposite to the base unit (2). Furthermore, the proposed robotic arm (100) may include a high-tech camera sensor (11) mounted on an end of robotic arm (100) to enable object detection and recognition. The high-tech camera sensor (11) is provided with infrared capabilities, a corrosion-resistant frame, and a watertight base enhance object detection and operational robustness. Figure 1

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007720 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR LEVERAGING AI-POWERED PERSONALIZED LEARNING TOOL

(57) Abstract :

METHOD FOR LEVERAGING AI-POWERED PERSONALIZED LEARNING TOOL Accordingly, embodiments herein disclose method for leveraging artificial intelligence (AI)-powered personalized learning tool. The method involves collecting data from various sources to track students' progress and activities. The collected data from the various sources is analyzed by machine learning models. The machine learning models are using classification techniques to pinpoint struggling students and regression models to forecast learning outcomes. Followed by, the proposed method may involve creating recommendation systems using collaborative filtering or content-based techniques for personalized recommendations. The recommendation systems develop techniques to suggest math exercises, games, and activities tailored to each student's learning history and strengths/weaknesses. The interactive dashboards are created using tools, such as Tableau and Power BI, for monitoring and insights. Figure 1

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008825 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADJUSTABLE FOOTREST FOR SQUATTING POSTURE ON TOILETS

(51) International classification	:A47K17/02
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)Swami Rama Himalayan University

Address of Applicant :Swami Rama Himalayan University,
Swami Ram Nagar, Jolly Grant, Dehradun, Uttarakhand, 248016,
India Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Vijendra Devisingh Chauhan

Address of Applicant :Himalayan Institute of Medical Sciences,
Swami Rama Himalayan University, Swami Ram Nagar, Jolly
Grant, Dehradun, Uttarakhand-248016, India Dehradun -----

2)Sandeep Kumar

Address of Applicant :Assistant Professor, Department of
Mechanical Engineering, Himalayan School of Science and
Technology, Swami Rama Himalayan University, Swami Ram
Nagar, Jolly Grant, Dehradun, Uttarakhand-248016, India
Dehradun -----

3)Chandra Shekhar Nautiyal

Address of Applicant :Himalayan Institute of Medical Sciences,
Swami Rama Himalayan University, Swami Ram Nagar, Jolly
Grant, Dehradun, Uttarakhand-248016, India Dehradun -----

(57) Abstract :

The adjustable footrest apparatus described herein revolutionizes the traditional bathroom experience by providing users with a versatile and ergonomic solution for enhancing comfort and promoting proper posture during defecation. Featuring a base platform for stability, rubber pads for traction, and a top platform with acupressure points for relaxation, the apparatus offers a holistic approach to improving the user experience. Innovative features such as rotational and translational motion, along with a secure stopper mechanism, allow users to customize the footrest to their individual preferences and anatomical needs. With its user-centric design and emphasis on comfort and convenience, the adjustable footrest apparatus represents a significant advancement in bathroom technology. Whether used in residential or commercial settings, this innovative device offers a multifaceted solution for promoting better health and well-being through improved bathroom ergonomics.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008835 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FORMULATION AND EVALUATION OF NATURAL HERBALANTI DIBETIC POLY TEA BAG

(51) International classification :A61K0036270000, A61K0036280000, A61K0036820000, A61K0036480000, A23F0003140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ATUL PRATAP SINGH
Address of Applicant :Vill Madhwapur Post Alawalpur -----

2)SOPS IIMT University Meerut

3)Umalok College of Pharmacy Meerut

4)TIPER Meerut

5)MIIT College of Pharmacy Meerut

6)SRM Institute of Science and Technology Delhi NCR U.P

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Raj Kumar
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

2)Satya Prakash
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

3)Mohd Sajid
Address of Applicant :Umalok College of Pharmacy, Bhatipura Garh Road Meerut Meerut -----

4)Ritu Kumari
Address of Applicant :Umalok College of Pharmacy, Bhatipura Garh Road Meerut Meerut -----

5)Deepika Singh
Address of Applicant :SRM Institute of Science and Technology Delhi NCR U.P, Delhi NCR, Uttar Pradesh Ghazabad -----

6)Rubal Rathi
Address of Applicant :MIIT College of Pharmacy Meerut, N.H 58 Gath Road meerut Meerut -----

7)Pratibha Singh
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

8)Priyanka Tyagi
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

9)Komal
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

10)Rajesh
Address of Applicant :TIPER, Mavana Road Meerut Meerut -----

11)Aakash Kumar Jaiswal
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

12)Mansi Aggarwal
Address of Applicant :SOPS,IIMT University Meerut Meerut -----

(57) Abstract :

The art of crafting a herbal poly tea bag involves a meticulous selection of botanical ingredients renowned for their therapeutic properties. *Gymnema sylvestre*, with its anti-diabetic attributes; *Pterocarpus*, known for anti-inflammatory and antimicrobial effects; *Milk Thistle*, offering hepatoprotective benefits; and *Camellia sinensis*, celebrated for its rich antioxidants, converge in a thoughtful fusion. This comprehensive guide delves into the materials that form the foundation of our herbal poly tea bag. The herbal poly tea bag, infused with *Gymnema sylvestre*, *Pterocarpus*, *Milk Thistle*, and *Camellia sinensis*, is a testament to the fusion of ancient herbal wisdom and modern science. Each sip offers not only a delightful flavor experience but also a symphony of health benefits derived from the carefully selected botanicals. From sourcing premium ingredients to the eco-friendly packaging, every step in crafting this herbal blend reflects a commitment to both your well-being and the planet. Key words:- Natural herbal anti diabetic teas bag, hepatoprotective, antioxidants, anti-inflammatory and antimicrobial effects.

No. of Pages : 20 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008905 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR INTELLIGENT CYBER-ATTACK ANALYSIS

(51) International classification :G06Q0010060000, A61B0005000000, A61B0005369000, G16H0050300000, G16H0040200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)GUPTA, Vansh
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure pertains to system (102) and method (200) for intelligent cyber-attack analysis in a network. The system (102) comprises a processor (104) coupled to a memory (106). The memory (106) stores processor-executable instructions. The processor (104) is configured to collect a plurality of data from a plurality of sources in the network. The processor (104) is configured to analyse the plurality of data to identify patterns and anomalies to detect potential cyber threats. Also, the processor (104) is configured to assess potential business impacts on an organisation based on the analysed data. Further, the processor (104) is configured to assign a business impact score based on the assessed potential business impacts. Furthermore, the processor (104) is configured to generate an assessment report based on the assigned business impact score. Moreover, the processor (104) is configured to transmit a visual representation of the assessment report to a user interface.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008192 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD FOR FORMULATION OF TENOFOVIR AND EMTRICITABINE SUSTAINED RELEASE TABLET

<p>(51) International classification :A61K47/02, A61K47/36, A61K47/38, A61K9/20, A61K9/22, A61K9/50</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE) Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. SUSHMA VERMA Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida ----- 2)MR SUSHEN SINGH CHODHARY Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida ----- 3)DR ANJNA RANI Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida ----- 4)DR SALAHUDDIN Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida ----- 5)DR SWARUPANJALI PADHI Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida ----- 6)DR MONIKA Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----</p>
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(57) Abstract :

Disclosed herein is a method (200) for formulation of tenofovir and emtricitabine sustained release tablet. The method (200) includes preparing stock solution of tenofovir (102). The method (200) also includes preparing stock solution of emtricitabine (104). The method (200) also includes mixing a stock solution of tenofovir (102), a stock solution of emtricitabine (104), okra mucilage (106), and a plurality of polymer (108). The method (200) also includes making granules at predetermined concentration and creating the wet coherent mass. The method (200) also includes sieving the created the wet coherent mass. The method (200) also includes dried the resulting granules and combining magnesium stearate (110) and talc (112). The method (200) also includes blending the mixture homogeneously. The method (200) also includes pressing the homogeneously blended mixture to obtain the desired tablet form.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : A TRANSDERMAL FILM FORMULATION METHOD FOR ASAFOETIDA DELIVERY

(51) International classification :A61K9/00, A61K9/70, A61K9/7007, B82Y5/00

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY (PHARMACY INSTITUTE)
 Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)DR. SUSHMA VERMA
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----
2)MR RAJAT SINGH RAGHAV
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----
3)DR ANJNA RANI
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----
4)DR SALAHUDDIN
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----
5)DR SWARUPANJALI PADHI
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----
6)DR MONIKA
 Address of Applicant :Noida Institute of Engineering and Technology (Pharmacy Institute), 19 Knowledge Park II, Institutional Area, Greater Noida 201306 Greater Noida -----

(57) Abstract :
 Disclosed herein is a transdermal film formulation method (100) for asafoetida delivery. The method (100) begins with the preparation stage (102), involving technical preparations, protocol establishment, and laboratory setup. The exploration phase (104) delves into physical properties, including melting points, FTIR, and UV characteristics analysis. The compatibility investigation (106) assesses substance compatibility, testing solubility profiles, and pH interactions. The pre-formulation optimization (108) fine-tunes the formulation based on data, establishing curves and conducting tests. The formulation development (110) implements the optimized formulation, creating films with calibrated thickness, flexibility tests, and pH adjustments. The quality assurance (112) ensures formulation quality through verification processes. The in-vitro assessment (114) validates transdermal patch design, analysing drug release and applying kinetic models. The optimization and refinement (116) involve advanced analyses and fine-tuning for efficiency. The method (100) concludes with the finalization stage (118), selecting the ultimate formulation based on meticulous evaluations to meet desired criteria.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008206 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOLAR POWERED THERMAL STORAGE BATTERY DEVICE

(51) International classification :F24S0023300000, F03G0006060000, F28D0020000000, F24S0060300000, F03D0009250000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Jawaaz Ahmad

Address of Applicant :House No. 191, Lane No.02, Firdous Colony, Buchpora, Srinagar, Jammu and Kashmir, INDIA – 190020 Srinagar -----

2)Design Innovation Centre

3)Islamic University of Science and Technology

4)JK Science Technology and Innovation Council

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Jawaaz Ahmad

Address of Applicant :House No. 191, Lane No.02, Firdous Colony, Buchpora, Srinagar, Jammu and Kashmir, INDIA – 190020 Srinagar -----

(57) Abstract :

The Solar Powered Thermal Storage Battery Device presents a novel approach to harnessing solar energy for versatile power generation applications. Consisting of vacuum-evacuated glass tubes, strategically positioned hollow copper tubes within the vacuum-evacuated glass tubes, and a central hexagonal shaped copper piece with enhanced surface area features, the device efficiently captures and transfers solar heat energy to a thermally insulated hexagonally shaped box filled with a heat storage medium, typically sand. Equipped with a lid featuring double-glazed glass and a large Fresnel lens for sunlight concentration, the device optimizes solar energy capture. Additionally, integrated Peltier elements, a lithium-ion battery, and a DC to AC converter circuit enable the conversion of stored heat energy into both DC and AC power outputs. The device's modular design, adjustable tripod stand, and safety features ensure reliable performance and ease of use, making it suitable for off-grid and renewable energy applications. Figure to be published with Abstract: Figure 1

No. of Pages : 25 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008570 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM FOR DOOR HANDLE ASSEMBLY WITH A COUPLER MECHANISM

(51) International classification :E05B0001000000, E05B0003060000, E03C0001042000, G01L0005000000, B65D0025280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Saurav Agarwal

Address of Applicant :A-62 Mayfair Garden New Delhi- 110016 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Saurav Agarwal

Address of Applicant :A-62 Mayfair Garden New Delhi- 110016
Delhi -----

(57) Abstract :

The present invention relates to a system for door handle assembly with coupler mechanism. The system, proposed in this invention, incorporates a coupler which is directly attached to the rosette and spring packet. The handle is directly attached to the coupler with the help of four interlocks provided in the coupler which fits snugly into the four notches provided in the handle. The coupler setup eliminates the problem of loosening and slippage faced in conventional handles which are mounted on the spindle bar. Moreover, the system further provides a way to easily remove the handle. Manufacturing of the spindle bar becomes simple and cost effective as there is no slit in it. There is no more any visible line in the rosette. This prevents damage caused to the handle during renovation and painting/polishing.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008591 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ULTRA LOW TEMPERATURE CO-FIRED CERAMIC (ULTCC) HAVING HIGH QUALITY FACTOR (Q X F) VALUE FOR USE IN MICROWAVE DEVICES AND METHOD OF PREPARATION THEREOF.

(51) International classification	:B82Y30/00, B82Y40/00, C04B35/01, C04B35/50, C04B35/64	(71)Name of Applicant : 1)Dr. Preeti Kumari Address of Applicant :Dr. Preeti Kumari, Assistant Professor, Dept. of Electronics and Communication, JK Institute of Applied Physics and Technology, University of Allahabad, Prayagraj, Uttar Pradesh -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Preeti Kumari
Filing Date	:NA	Address of Applicant :Dr. Preeti Kumari, Assistant Professor, Dept. of Electronics and Communication, JK Institute of Applied Physics and Technology, University of Allahabad, Prayagraj, Uttar Pradesh -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: An Ultra Low Temperature Co-fired Ceramic (ULTCC) having high quality factor (Qxf) value for use in microwave devices and method of preparation thereof. The present invention relates to an Ultra Low Temperature Co-fired Ceramic (ULTCC) having high quality factor (Qxf) value for use in microwave devices characterized in that the chemical formula of the dielectric material is as follows: $(1-x)\text{BaV}_2\text{O}_6-(x)\text{LiMgPO}_4$ wherein x lies in the range of 0.3 to 0.5, preferably 0.5; Qxf value of the dielectric material is 61,000 GHz; dielectric constant is 8.3; sintering temperature is 475-550, preferably 525; and the temperature coefficient of the resonant frequency is in the range of -40 to -30 ppm/. Further a method for preparation of the ULTCC dielectric material is also disclosed. The dielectric material shows excellent microwave dielectric properties with low dielectric constant and high quality factor for use in microwave devices. Figure 1

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008620 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTROCHEMICAL IMMUNOSENSOR TEST STRIP FOR PROSTATE-SPECIFIC ANTIGEN DETECTION: FABRICATION AND COMPOSITION

<p>(51) International classification :G01N0027327000, G01N0033543000, G01N0033574000, G01N0033558000, B01L0003000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)SURYA MANISHA INUKONDA Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING: IIT KANPUR, UTTAR PRADESH, INDIA, 208016 Kanpur -----</p> <p>2)SIDDHARTHA PANDA Address of Applicant :DEPARTMENT OF CHEMICAL ENGINEERING SCIENCE/ NATIONAL CENTRE FOR FLEXIBLE ELECTRONICS: IIT KANPUR, UTTAR PRADESH, INDIA, 208016 Kanpur -----</p>
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(57) Abstract :

ELECTROCHEMICAL IMMUNOSENSOR TEST STRIP FOR PROSTATE-SPECIFIC ANTIGEN DETECTION: FABRICATION AND COMPOSITION ABSTRACT The present invention provides an electrochemical immunosensor test strip for rapid detection of prostate-specific antigen (PSA). The test strip features a three-electrode configuration with a super-hydrophobic polydimethylsiloxane (PDMS)-titanium dioxide (TiO₂) nanocomposite coating, imparting high contact angles and efficient liquid repellence. A specific wettability pattern on the substrate surface delineates a super-hydrophilic working electrode surrounded by a super-fabrication method that involves screen printing, spray coating, UV irradiation, and antibody immobilization steps. Further nanocomposite composition variations, alternative substrates, signal amplification strategies, multiplexed detection capability, miniaturization, and surface modifications for long-term stability are disclosed. The test strip offers a promising solution for early prostate cancer diagnosis, with potential applications in clinical diagnostics and point-of-care testing hydrophobic regions, enhancing electrode performance and reducing nonspecific binding. Immobilized polyethylenimine (PEI), glutaraldehyde, and anti-PSA IgG antibodies on the working electrode facilitate specific PSA capture. FIG. 2

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007721 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MULTIFUNCTIONAL SECURE WALLET

(51) International classification :G06Q0020360000, H04W0012060000, G16H0010600000, G06Q0010060000, G07F0007080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)The NorthCap University

Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23A, Gurugram Haryana India 122017 Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Garima Sharma

Address of Applicant :Faculty, CSE, The NorthCap University, Gurugram Haryana India Gurugram -----

2)Kunal Verma

Address of Applicant :Student, CSE,The NorthCap University Gurugram Haryana India Gurugram -----

3)Saumya Bansal

Address of Applicant :Student, CSE, The NorthCap University Gurugram Haryana India Gurugram -----

(57) Abstract :

MULTIFUNCTIONAL SECURE WALLET The present invention relates to the field of secure wallet. Specifically, it focuses on multifunctional secure wallet involves advanced security technologies, AI-driven systems, and environmental sustainability in the domain of personal credential management and financial record security. The multifunctional secure wallet system includes AI-driven security features facilitating multi-factor authentication and location-based safeguards for the protection of user's personal and financial data, a touchscreen interface enabling users to securely manage personal credentials, financial, and health records in an environmentally conscious manner, a semantic augmentation module for recognizing and enhancing the understanding of objects through user input and sensor data, and a system to reduce reliance on physical plastic cards, aligning with global sustainability efforts by promoting eco-friendliness in credential management.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007734 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICE FOR PROTECTING ELECTRIC CIRCUITS

(51) International classification :H02H1/00, H02H3/08,
H02H3/20, H02H3/32

(86) International Application No.:NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to
Application Number :NA
Filing Date :NA

(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Karthik Madhav Jain

Address of Applicant :C-594 New Friends Colony, New
Delhi-110025, India New Delhi -----

2)Lakshmi Mukundan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Karthik Madhav Jain

Address of Applicant :C-594 New Friends Colony, New Delhi-
110025, India New Delhi -----

2)Lakshmi Mukundan

Address of Applicant :C-201, Renaissance Temple Bells,
Industrial Suburbs, Yeshwantapur, Bengaluru – 560022,
Karnataka, India Bengaluru -----

(57) Abstract :

ABSTRACT DEVICE FOR PROTECTING AN ELECTRIC CIRCUITS Embodiments of the present disclosure related to a device for protecting an electric circuit. The device includes a control unit. The control unit is configured to receive as input a current and a voltage from a main power supply in near real-time. The control unit is configured to compare the current and the voltage received with a standard current threshold and a standard voltage threshold, wherein the standard current threshold and the standard voltage threshold is provided to the control unit. The control unit is configured to determine any anomaly, caused by heating effect on the electric circuit, such heating effect induced state change in materials near/in the electric circuit from electricity effects, through the current and/or the voltage based on any deviations of the current and/or voltage received from the standard current threshold or the standard voltage threshold. Other embodiments are also disclosed. Reference Figure 4

No. of Pages : 29 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007756 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM TO PREVENT CYBER-ATTACKS IN INTERCONNECTED ENVIRONMENTS

(51) International classification :G06F0021550000, G06F0021570000, G06Q0020040000, H04L0067100000, G01C0023000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)DIKSHANT
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

A system (100) to prevent cyber-attacks in interconnected environment includes a processing unit (102) configured to: integrate, data across one or more data repository (108) within interconnected data processing environment; analyzes, the integrated data from one or more data repository (108) within the interconnected data processing environment using one or more learning module (110); identify, anomalies, indicators of compromise, patterns, deviations and unusual activities in the analysed data; correlate, all the identified anomalies, indicators of compromise, patterns, deviations, and unusual activities in data repository (108) within the interconnected data; predict and detect, cyber-attack phases from the correlated data upon analyzing past attack data, known techniques, and behavioral patterns using the leaning module (110); initiate, remedial actions in response to detected cyber-attack phases; and recommend, potential actions on predicted cyber-attacks to a user (112) of the system (100).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008223 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING RECOMMENDATIONS USING GENERATIVE ARTIFICIAL INTELLIGENCE (GENAI)

(51) International classification :G16H0050200000, G16H0050700000, G06Q0030020000, G06F0016245700, G06F0003034600

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HCL Technologies Limited
 Address of Applicant :806 Siddharth, 96, Nehru Place, New Delhi -110019, INDIA Delhi -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Rohit Ahlawat
 Address of Applicant :14980 NE 31st St., Suite 300, 3rd Flr, Redmond, WA 98052 USA, 201 4222244 -----
2)Rajesh Krishnan Chirankumarath
 Address of Applicant :14980 NE 31st St., Suite 300, 3rd Flr, Redmond, WA 98052 USA, 425-364-9364 -----
3)Sachidanand Sharma
 Address of Applicant :14980 NE 31st St., Suite 300, 3rd Flr, Redmond, WA 98052 USA, 425-866-1593 -----
4)Raju NVN
 Address of Applicant :Suite#200, 580 Granville St, Vancouver, BC V6C 1W8 Canada, +1 604-741-1541 -----

(57) Abstract :
 METHOD AND SYSTEM FOR GENERATING RECOMMENDATIONS USING GENERATIVE ARTIFICIAL INTELLIGENCE (GENAI) ABSTRACT The disclosure relates to a method and system of visually inspecting computational geometry code. The method may include receiving, from a user, a query associated with a subject data, and selecting, in real time, one or more relevant vectors associated with subject data from a plurality of vectors associated with the subject data, based on the query. The method may further include inputting vectors associated with the query along with the one or more relevant vectors associated with subject data based on the query, to a Generative Artificial Intelligence (GenAI) model, and receiving, from the GenAI model, recommendations corresponding to the vectors associated with the query and the one or more relevant vectors associated with subject data based on the query inputted to the GenAI model. [To be published with FIG. 7]

No. of Pages : 38 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008363 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : APPARATUS AND METHOD FOR PRODUCING RECYCLED WASTE PLASTIC MODIFIED BITUMEN

(51) International classification :B01F15/00, B01F7/00, B29B13/10, B29B17/00, B29B17/04, B29C48/40
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Roorkee

Address of Applicant :Roorkee - Haridwar Highway, Roorkee - 247667, Uttarakhand, India. Roorkee -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DEB, Soumyadeep

Address of Applicant :Senior Research Fellow, Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee – 247667, Uttarakhand, India. Roorkee -----

2)KUMAR, Praveen

Address of Applicant :Professor and Head, Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee – 247667, Uttarakhand, India. Roorkee -----

3)SABOO, Nikhil

Address of Applicant :Assistant Professor, Department of Civil Engineering, Indian Institute of Technology Roorkee, Roorkee – 247667, Uttarakhand, India. Roorkee -----

(57) Abstract :

The present disclosure provides an apparatus (100) and a method for producing Recycled Waste Plastic Modified Bitumen (RWPMB). The apparatus (100) includes a mixing blade assembly with blade(s). Each blade includes a hub (110) attached to a spindle (112), a circular hub plate (154) attached to the hub (110), and shear head(s) (156) radially and axially covering the hub plate (154). The mixing blade assembly rotates with the spindle (112) during a shear mixing process of blending materials. The apparatus (100) includes a mixing container (108) for holding the blending material and enclosing the mixing blade assembly. The blade(s) are arranged in a predetermined geometric configuration for achieving efficient shear mixing and uniform dispersion of the blending materials. The blade(s) and the mixing container (108) are configured according to predetermined aspect ratios to produce uniformly dispersed RWPMB.

No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : DEVELOPMENT OF A BLOCKCHAIN-BASED CREDENTIAL VERIFICATION SYSTEM FOR EDUCATION: REVOLUTIONIZING

<p>(51) International classification :H04L0009320000, G06Q0020380000, H04L0009060000, G06Q0050200000, G06F0021640000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. Sunil Kr Pandey Address of Applicant :Professor, Department of Information Technology, Institute of Technology & Science, Ghaziabad, Uttar Pradesh, India ----- ----- 2)Asmita Singh 3)Priti Sharma 4)Dr. S. K. Yadav 5)Dr. Gouri Desai 6)Dr. Nupur Mistry 7)Priyanka Sharma 8)Divya Rani 9)Dr. Udit Mamodiya Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Prof. Sunil Kr Pandey Address of Applicant :Professor, Department of Information Technology, Institute of Technology & Science, Ghaziabad, Uttar Pradesh, India ----- ----- 2)Asmita Singh Address of Applicant :Assistant Professor, Department of Computer Applications, Swami Vivekanand Institute of Engineering and Technology, Punjab, India ----- ----- 3)Priti Sharma Address of Applicant :Assistant Professor, Faculty of Engineering and Technology, Jagannath University, Jaipur, Rajasthan, India ----- ----- 4)Dr. S. K. Yadav Address of Applicant :Associate Professor, Department of Mechanical Engineering, K R Mangalam University, Gurugram, India ----- ----- 5)Dr. Gouri Desai Address of Applicant :Associate Professor, Department of Architecture, Goa College of Architecture, Panjim, Government of Goa, Goa, India ----- ----- 6)Dr. Nupur Mistry Address of Applicant :Associate Professor, Department of Architecture, Goa College of Architecture, Panjim, Government of Goa, Goa, India ----- ----- 7)Priyanka Sharma Address of Applicant :Assistant Professor, Department of Computer Applications, Swami Vivekanand Institute of Engineering and Technology, Punjab, India ----- ----- 8)Divya Rani Address of Applicant :Assistant Professor, Department of Computer Applications, Swami Vivekanand Institute of Engineering and Technology, Punjab, India ----- ----- 9)Dr. Udit Mamodiya Address of Applicant :Associate Professor, Associate Dean (Research), Poornima University, Jaipur, Rajasthan, India ----- -----</p>
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(57) Abstract :
The present invention discloses a transformative Blockchain-Based Credential Verification System for Education, revolutionizing the authentication of academic qualifications. The system employs a decentralized network of nodes, blockchain infrastructure, and cryptographic techniques to securely record, validate, and verify educational credentials. Utilizing smart contracts for automated verification, the invention enhances efficiency and accuracy, while cryptographic measures ensure the tamper-resistant integrity of stored credentials. This innovative system addresses the shortcomings of traditional methods, offering a user-friendly interface, interoperability with existing systems, and integration with decentralized identifiers for enhanced user privacy. The invention marks a significant leap forward in credential verification, promising a transparent, globally accessible, and technologically advanced solution for educational institutions, employers, and individuals alike.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008907 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR COLLABORATIVE EVENT ENGAGEMENT

(51) International classification :G06N0020000000, G06Q0010100000, G06F0021620000, H04L0067306000, G06F0016953500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)TAMANNA
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure provides a system (108) and method for collaborative event engagement. The system (108) is communicatively coupled with computing device(s) (104) being operated by user(s) (102) via a network (106). The system (108) receives a first information from the user(s) and creates profile(s) associated with the user(s), and analyzes the profile(s) using machine learning techniques. The system (108) bifurcates the user(s) (102) into group(s) for a collaborative event. The system (108) receives a second information which is real-time information associated with the users (102) at predetermined intervals (time domain) during the collaborative event, and analyzes the one or more profiles and the second information for re-bifurcating the user(s) or reconfiguring the groups. The system (108) notifies the user(s) (102) among the groups with a user information associated with the users (102), a group information, and collaborative activities associated with the group, based on the re-bifurcation.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008909 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR ENHANCING SECURITY IN NETWORK APPLICATIONS

(51) International classification :G06F0021570000, G06F0040300000, G06N0020000000, G06N0003040000, H04L0051000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)MUSKAN
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 A system (100) and method (200) for enhancing security in network applications is provided. The system (100) involves a central analysis unit (108) to detect one or more vulnerabilities in existing one or more security questions, wherein the central analysis unit (108) includes a natural language processing (NLP) module (110) and a machine learning module (112) to analyze and evaluate a linguistic complexity, uniqueness, and predictability of the security questions based on a database of known vulnerabilities. The system (100) provides comprehensive evaluation ensuring that security questions are strong and resistant to common attack methods. The system (100) continuously monitors and adapts to emerging threats, modifying security questions as needed, ensuring that security questions remain effective against evolving attack methods and vulnerabilities.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008910 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM FOR SECURE COMMUNICATION BETWEEN COMPUTING DEVICE AND VEHICLE AND METHOD THEREOF

(51) International classification :H04L0009080000, G06F0021570000, H04L0009320000, G06F0021560000, G06F0021550000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)ARORA, Pratham
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

A system (102) for secure communication between computing devices and vehicles, is disclosed. The system (102) achieves secure communication establishment, enabling confidential and reliable interactions. Moreover, employing mutual authentication ensures that both the computing device and vehicle verify each other's identity for a secure channel. Additionally, anomaly detection and real-time monitoring enhance security by promptly identifying and responding to abnormal behaviors and intrusion attempts. The system (102) also offers robust malware protection, adapting scanning techniques based on the vehicle's operational context. Over-the-Air (OTA) updates deliver adaptive security patches. Moreover, contextual risk scoring prioritizes security measures, and cryptographically sealed event logging ensures tamper-proof records. Continuous security health monitoring further proactively identifies vulnerabilities. Furthermore, collaboration with computing device manufacturers enhances hardware-based security.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008621 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD FOR ANTIMICROBIAL EVALUATION AND PHYTOCHEMICAL SCREENING OF MACRO-FUNGI

<p>(51) International classification :G01N0001020000, G06Q0010100000, G01N0001280000, G01N0033000000, A61P0025000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. GAURAV KOTHIYAL Address of Applicant :HIMALAYIYA UNIVERSITY, FATEHPUR TANDA, JEEVANWALA, DEHRADUN-HARIDWAR NATIONAL HIGHWAY, P.O.- DOIWALA, DIST.- DEHRADUN, (UTTARAKHAND), INDIA, PIN CODE - 248140 -----</p> <p>2)PROF. (DR.) KEERTI SINGH Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. GAURAV KOTHIYAL Address of Applicant :HIMALAYIYA UNIVERSITY, FATEHPUR TANDA, JEEVANWALA, DEHRADUN-HARIDWAR NATIONAL HIGHWAY, P.O.- DOIWALA, DIST.- DEHRADUN, (UTTARAKHAND), INDIA, PIN CODE - 248140 -----</p> <p>2)PROF. (DR.) KEERTI SINGH Address of Applicant :SHRI GURU RAM RAI UNIVERSITY, PATEL NAGAR, DEHRADUN, UTTARAKHAND 248001 -----</p>
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(57) Abstract :

Disclosed herein is a method (100) for collection, extraction, antimicrobial evaluation, and phytochemical screening of macro-fungi for systematically collecting macro-fungi samples from a natural habitat in exploration and collection (102), followed by processing in sample preparation (104) and rigorous phytochemical screening in chemical analysis (106) to identify chemical constituents in extracts. The initiative extends to cultivating microbial strains, including MTCC strains, and conducting assays in microbial cultivation (108) to assess the antimicrobial activity of macro-fungi extracts. The method (100) involves systematic documentation of experimental procedures, observations, and results in data recording (112) for comprehensive record-keeping. Macro-fungi extracts are analyzed, ranked based on antimicrobial efficacy in comparison and ranking (114), and the most potent samples are identified. The method (100) includes the isolation of active extracts guided by positive phytochemical screening and significant antimicrobial properties in identification of active extracts (116).

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : A NOVEL METHOD TO ENSURE COAL MINE SAFETY THROUGH THE UTILIZATION OF IOT TECHNOLOGY

(51) International classification :G06Q0010060000, G06Q0050020000, G05D0001020000, H04L0067120000, H04W0064000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Ms. Tanmeet Kaur
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
2)Dr. Monika Dixit
3)Dr. Shiv Narain Gupta
4)Dr. Vipin Sharma
5)Dr. Astha Sharma
6)Abhinav Kumar Ranjan
7)Kamlesh Kumar
8)Sumit Kumar
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Ms. Tanmeet Kaur
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
2)Dr. Monika Dixit
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
3)Dr. Shiv Narain Gupta
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
4)Dr. Vipin Sharma
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
5)Dr. Astha Sharma
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
6)Abhinav Kumar Ranjan
 Address of Applicant :Student, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
7)Kamlesh Kumar
 Address of Applicant :Student, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----
8)Sumit Kumar
 Address of Applicant :Student, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

(57) Abstract :
 The present invention relates to a novel method (100) to ensure coal mine safety through the utilization of IoT technology. The method (100) comprises the following steps: deploying Low-Power Wide-Area Network (LPWAN) devices equipped with sensors throughout the mine to monitor various safety parameters; transmitting data collected by the LPWAN devices to a central server located at the surface of the mine; analyzing the collected data using advanced data processing and machine learning algorithms to identify potential safety risks; initiating safety procedures automatically based on the identified risks, including shutting down non-essential equipment or evacuating certain areas of the mine; integrating the IoT-based safety unit with existing mine safety systems using open standards and protocols; providing real-time monitoring and alerts to communicate important information to workers and supervisors.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008648 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SMART SWITCH FOR OPTIMAL LOAD ASSIGNMENT

(51) International classification :G01R21/00, G01R22/06, G05F1/66, H02J3/00, H02J3/26, H02M1/10

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)National Institute of Technology (NIT) Srinagar
 Address of Applicant :Hazratbal, Srinagar, Jammu and Kashmir, India-190006 Srinagar -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Neeraj Gupta
 Address of Applicant :Electrical Engineering Department, National Institute of Technology Srinagar, Hazratbal, Srinagar, Jammu and Kashmir, India-190006 Srinagar -----

2)Dr. Novalio Daratha
 Address of Applicant :Assistant Professor, Electrical Engineering Department Faculty of Engineering, University Of Bengkulu, Indonesia -----

(57) Abstract :

The present invention discloses a smart switch system designed for precise load optimization in electrical power systems. Comprising a single-pole triple-throw smart switch, a server, and a smart meter, the system leverages real-time monitoring of critical internal and external parameters by the smart meter. The server utilizes this data to dynamically optimize connections among electrical devices within a structure. The single-pole triple-throw smart switch executes the server-identified solution for efficient load assignment based on the monitored parameters. With communication capabilities via display, Bluetooth, or WiFi, the smart switch enables remote monitoring and control of electrical appliances. Additionally, the system features a fail-safe mechanism, combining a solid-state switch, an Arduino microcontroller, and an additional mechanical switch, ensuring continued functionality even in the absence of internet connectivity. This invention represents a technological advancement in optimizing load distribution in diverse electrical power systems, including three-phase buildings and bipolar low-voltage DC systems

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007759 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MINIATURIZED 1×2 MIMO ANTENNA SOLUTION FOR 5G COMMUNICATION

(51) International classification :H01Q0009040000, H01Q0001520000, H01Q0001380000, H01Q0001240000, H04B0001382700

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)GUPTA, Anupma
Address of Applicant :Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)KUMAR, Vipam
Address of Applicant :Sri Sai College of Engineering and Technology, Badhani, Pathankot, Punjab - 145001, India. Pathankot -----

3)SINGLA, Manish Kumar
Address of Applicant :Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

4)THAKUR, Ekta
Address of Applicant :Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering & Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

5)DOGRA, Ayush
Address of Applicant :CURIN, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to the field of wireless communication. More particularly, the present disclosure relates to a 1×2 MIMO antenna (100) for 5G Communication at 27 GHz. Initially, a full ground patch antenna with transformer impedance feedline is designed on an FR4 substrate material. Then, to attain the resonance at 27 GHz mm wave band ground plane is etched with a rectangular slot. It tunes the antenna at 30 GHz, further rectangular patch is modified as T-shaped patch (102) and required band is attained. To achieve the MIMO characteristics, similar antenna is placed parallel to designed antenna (200). Mutual coupling between two radiators is below -20 dB. Furthermore, the designed antenna is deployed on the muscle layer, optimized and required results are obtained. Then, specific absorption rate (SAR) is simulated for 1-gram of tissue with input power of 1 mW. SAR value is within the safety limits is achieved.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007760 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR COLLABORATIVE VEHICLE SURVEILLANCE AND ANOMALY DETECTION

(51) International classification :A61B0005000000, G08G0001017000, G08G0001010000, H04W0024080000, G06Q0010080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)BANSAL, Ankit
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 Embodiments of the present disclosure relates to a system (102) and method (300) for collaborative vehicle surveillance and anomaly detection aimed at enhancing road safety, traffic management, and overall transportation efficiency. The system (102) comprises a processor (202) coupled to a memory. The memory stores processor-executable instructions. The processor (202) is configured to collect data from one or more vehicles. Further, the processor (202) is configured to process the collected data. Thereafter, the processor (202) is configured to analyse the processed data to identify potential anomalies. In the end, the processor (202) is configured to trigger an alert to mitigate the identified potential anomalies.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007761 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR ENHANCING DATA SECURITY IN A COMPUTER NETWORK

(51) International classification :G06F0021620000, H04W0012086000, H04W0012080000, H04L0009400000, H04L0009320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)KAUR, Arshdeep
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 Embodiments of the present disclosure relates to a system (102) and method (300) for data security within a computer network by utilizing lattice-based security domains to achieve data confidentiality and integrity through filesystem view separation. In an aspect, the system comprises a processor (202) coupled to a memory (204). The memory (204) stores processor-executable instructions. The processor (202) is configured to establish an access control framework of lattice structures. Further, the processor (202) is configured to create isolated views of one or more files for a security domain based on the lattice structures. Thereafter, the processor (202) is configured to enforce access control policies for the one or more files based on the lattice structure. In the end, the processor (202) is configured to implement the access control policies for accessing the files.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007775 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMICALLY HOPPING ADDRESSES IN A NETWORK

(51) International classification :H04L0043087600, H04L0041068600, H04L0061451100, G06T0011600000, G06T0019000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)MISHRA, Rahul
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)PANDEY, Sakshi
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)KADIAN, Harsh
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
The present disclosure relates to a system 102 and method 200 for dynamically hopping addresses in a network. The method includes determining 202 real-time status of the network during a communication between two or more endpoints associated with the network and determining 204 one or more data packets communicating between the two or more endpoints. Further, the method includes dynamically hopping 206 the addresses of the one or more data packets based on the determination.

No. of Pages : 23 No. of Claims : 10

(54) Title of the invention : EXPLORING BISMUTH-BASED DOUBLE PEROVSKITES FOR SOLAR CELLS USING MACHINE LEARNING PERSPECTIVE

(51) International classification :G06N0020000000, G06K0009620000, H01L0051000000, H04W0036140000, G01N0015140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Jaidev Kumar
 Address of Applicant :Assistant Professor, Department of Chemistry, Hariom Saraswati P. G. College Dhanauri, Haridwar, Uttarakhand, Pun-247667 Roorkee -----
2)Dr.P.Piramanayagam
3)Dr.Somarouthu V G V A Prasad
4)Dr. Mahendra Pratap Singh
5)Dr.P.B.Sandhya Sri
6)Dr Alla Srivani
7)N v s Seshagiri Rao
8)Dr. L.Jebaraj
9)Dr.Y.N.Ch.Ravi Babu
10)Dr.P.Gowtham
11)Jyoti Prasad Patra
12)Narayan Pandurang Sapkal
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Jaidev Kumar
 Address of Applicant :Assistant Professor, Department of Chemistry, Hariom Saraswati P. G. College Dhanauri, Haridwar, Uttarakhand, Pun-247667 Roorkee -----
2)Dr.P.Piramanayagam
 Address of Applicant :Assistant Professor, Department of Chemistry,SRM Madurai College for Engineering and Technology,Pottapalayam, Sivagangai District. Madurai -----
3)Dr.Somarouthu V G V A Prasad
 Address of Applicant :Professor, Department Of Physics And Electronics, Pithapur Rajah's Government College (A), Kakinada 533001. Kakinada -----
4)Dr. Mahendra Pratap Singh
 Address of Applicant :Assistant professor, Chemistry, Shri Sadguru Saibaba Science & Commerce College,Ashti-442707 Ashti -----
5)Dr.P.B.Sandhya Sri
 Address of Applicant :Professor, Department of Physics, Govt. Degree College, Avanigadda-521121 Avanigadda -----
6)Dr Alla Srivani
 Address of Applicant :Post Doctoral Researcher, VVIT, Guntur, 522006 Guntur -----
7)N v s Seshagiri Rao
 Address of Applicant :Associate Professor of Physics ,Institute of Aeronautical Engineering Dundigal Hyderabad Telangana Hyderabad -----
8)Dr. L.Jebaraj
 Address of Applicant :Professor and Head, P.S.R Engineering College, Sivakasi-626140 Sivakasi -----
9)Dr.Y.N.Ch.Ravi Babu
 Address of Applicant :Professor, Physics, Government Degree College, Avanigadda, 521121 Avanigadda -----
10)Dr.P.Gowtham
 Address of Applicant :Associate Professor, Department of Biomedical Engineering,KIT-Kalaighnr Karunanidhi Institute of Technology, Coimbatore 641402 Coimbatore -----
11)Jyoti Prasad Patra
 Address of Applicant :Professor Head EE and EEE Krupajal Engineering College KEC Pubasasan Prasanthi Vihar Kausalyaganga Near CIFA District Puri Odisha India Pin 751002 Bhubaneswar -----
12)Narayan Pandurang Sapkal
 Address of Applicant :Assistant Professor, Dr. D. Y. Patil Institute Of Technology, Pimpri - 411018. Pune -----

(57) Abstract :
 Exploring bismuth-based double perovskites for solar cells using machine learning perspective is the proposed invention. The proposed invention focuses on understanding the efficiency of bismuth based double perovskites in solar cells. The invention focuses on analyzing the parameters of bismuth based double perovskites for solar cells using algorithms of machine learning.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008398 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN APPARATUS FOR MOULDING A PLURALITY OF BRICKS

(51) International classification :B28B0019000000, B05B0012000000, B28B0015000000, F21W0131103000, A23P0030100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MUZAMMIL KHAN

Address of Applicant :VILLAGE MUZAFFARPUR, TEHSIL SAMBHAL, DISTRICT - SAMBHAL, UTTAR PRADESH, INDIA DISTRICT - SAMBHAL -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MUZAMMIL KHAN

Address of Applicant :VILLAGE MUZAFFARPUR, TEHSIL SAMBHAL, DISTRICT - SAMBHAL, UTTAR PRADESH, INDIA DISTRICT - SAMBHAL -----

(57) Abstract :

An apparatus (10) for moulding a plurality of bricks is provided. The apparatus includes a hopper (20) to receive raw materials. The apparatus includes a driven pulley to rotate corresponding to the rotation of a driver pulley. The apparatus includes at least one screw conveyor (30) to dispense the one or more raw materials from the hopper. The apparatus includes a mould unit (40). The mould unit includes a wheel (50) including moulds (60) to receive the one or more raw materials dispensed by the at least one screw conveyor. The mould unit includes a plate (80) to move bidirectionally between a bottom dead center of the moulds and a top dead center of the moulds. The mould unit includes a corresponding vertical post (120) including a corresponding roller (130) to push the corresponding plate (80) to expel the plurality of bricks from the plurality of moulds. FIG. 1

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009077 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR PARAMETER EXTRACTION OF FOUR-DIODE PHOTO-VOLTAIC CELL

(51) International classification :H01L0031054000, H02J0007350000, G06F0030200000, H02S0010000000, G06Q0010060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)SINGLA, Manish Kumar
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)GUPTA, Jyoti
 Address of Applicant :NIT Campus Jalandhar, National Highway 1, Jalandhar, Punjab - 144011, India. Jalandhar -----

3)GUPTA, Anupma
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

4)KUMAR, Vipin
 Address of Applicant :House no 143A, Joy Smart Homes, Wave Estate, Sector 85, Mohali - 140308, Punjab, India. Sahibzada Ajit Singh Nagar -----

5)SINGH, Manpreet
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 The proposed system (100) optimizes the performance of a four-diode photovoltaic (PV) cell within a solar power system through iterative refinement and real-time monitoring. Initial development involves modeling the four-diode photo-voltaic cell with optimized parameters for efficient solar energy conversion. Subsequently, integration into the solar power system ensures seamless operation in tandem with other components. Utilizing advanced algorithms, the energy conversion module dynamically adjusts parameters to maximize energy conversion efficiency, while a remote monitoring and control mechanism enables real-time assessment and adjustment of the photo-voltaic cell's parameters. Furthermore, fault detection mechanisms within the photo-voltaic cell facilitate timely identification and resolution of system issues. The comprehensive approach enhances energy output and reliability, making the method a promising avenue for advancing solar power technology.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009078 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : TWISTED IMPELLER FOR PUMP

(51) International classification :B29L31/08, F04D1/00,
F04D29/22, F04D29/24

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHARMA, Sonu

Address of Applicant :CUIET, Department of Mechanical Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

An impeller (100) for a pump for generating required output flow rate. The impeller comprises a hub (102), a base plate (102), and a plurality of radially extended blades (106). The hub (102) adapted to be mounted on a rotatable drive shaft of the pump and the base plate (104) configured to be coaxially mounted on the hub (102) perpendicular to axis of rotation. The plurality of radially extended blades (106) mounted on an outer surface of the hub (102) and a front surface of the base plate (104). The pump is configured to receive air or liquid coaxially through an inlet port of the pump and disperse the received air or liquid radially outward relative to the base plate (104).

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009080 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DISTRIBUTED DATA ANALYSIS

(51) International classification :G06N0020000000, G06K0009620000, G06F0011070000, H04L0069329000, H01L0021660000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)TANYA
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure provides a system (108) and a method for distributed data analysis. The system (108) includes primary node(s) (102) and secondary nodes (104) communicatively coupled to the system (108) via a network (106), where the primary nodes receive data from sources, and source(s) are bifurcated into groups. The system (108) receives the data at the one or more primary nodes, where each node among the primary nodes (102) receives the data from a group among the groups. The system (108) preprocesses the data and extracts feature(s) at primary nodes (102). The system (108) analyzes the features at the secondary nodes (104) using techniques that may include machine learning techniques. The system (108) may take decisions based on the analysis.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009081 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING THERMAL PROTECTION, IMPACT RESISTANCE AND WATER-PROOFING TO A BUILDING ROOF

(51) International classification :A61F0002915000, H02S0020230000, H01S0005020000, E04F0015200000, H01L0029780000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sharda University

Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KUMAR, Nishant

Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

2)KUMAR, Kuldeep

Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

3)KUMAR, Sunil

Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

4)GHANI, Sufyan

Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

5)GUPTA, Megha

Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

6)MUKHOPADHYAY, Sabyasachi

Address of Applicant :Department of Electrical Electronics and Communication Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

7)SINGH, Lavish Kumar

Address of Applicant :Department of Mechanical Engineering, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

(57) Abstract :

Embodiments of the present disclosure provide a system (100) and a method (200) for providing thermal protection, impact resistance and water-proofing to a building roof (110). The system (100) can include a plurality of cylindrical rings (120), a first sheet (130), a second sheet (140) and a floor layer (150). The method (200) can comprise the steps of: laying (210), a plurality of cylindrical rings (120) over the building roof (110) to cover a top surface of the building roof (110) in its entirety; placing (220), a first sheet (130) on top of the plurality of cylindrical rings (120) for covering the plurality of cylindrical rings (120); positioning (230), a second sheet (140) above the first sheet (130); and forming (240), a floor layer (150) on top of the second sheet (140).

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : A STUDY ON ANALYSING THE ROLE OF DESIGN-ORIENTED PEDAGOGY AND MACHINE LEARNING IN TRANSFORMING COLLEGE EDUCATION

(51) International classification :G06Q0050200000, G06N0020000000, G09B0007000000, G06K0009620000, G09B0019000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Ms. Aishwarya Saxena
 Address of Applicant :Assistant Professor, Department of Management, School of Commerce and Management, IIMT University, Ganga Nagar, Meerut, 250001 Meerut -----
2)Dr Neelima Priyanka Nutulapati
3)Dr. Bhoopendra Karwande
4)Midhun Moorthi C
5)Dr.M.Sindhu
6)Er. Abhijeet Maurya
7)Rahul Kumar
8)Dr. Maaz Allah Khan
9)Dr. Gourav kalra
10)Dr.D.Satheesh Kumar
11)Dr. Talari Lakshmi Narayana
12)Dr. Harshal Patil
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Ms. Aishwarya Saxena
 Address of Applicant :Assistant Professor, Department of Management, School of Commerce and Management, IIMT University, Ganga Nagar, Meerut, 250001 Meerut -----
2)Dr Neelima Priyanka Nutulapati
 Address of Applicant :Professor, Department Of Information Technology, Srk Institute Of Technology, Enikepadu, Vijayawada, 521108 Vijayawada -----
3)Dr. Bhoopendra Karwande
 Address of Applicant :Asst. Professor Law, Govt. J. Y. Chhattisgah College Raipur 492001 Raipur -----
4)Midhun Moorthi C
 Address of Applicant :Research Scholar, Govt. College of Teacher Education, Kozhikode Pin:673001 Kozhikode -----
5)Dr.M.Sindhu
 Address of Applicant :Excel engineering college Autonomous Komarapalayam Namakkal ----
6)Er. Abhijeet Maurya
 Address of Applicant :Workshop Superintendent (Incharge), Central Workshop, Faculty of Engineering and Technology, University of Lucknow, Jankipuram Extension, Lucknow-226031 Lucknow -----
7)Rahul Kumar
 Address of Applicant :Assistant professor, Department of Teacher Education, Swami Shukdevanand College, Mumukshu Ashram, Shahjahanpur, Uttar Pradesh 242001 Shahjahanpur -----
8)Dr. Maaz Allah Khan
 Address of Applicant :Department of Civil Engineering, UIET Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow UP Lucknow -----
9)Dr. Gourav kalra
 Address of Applicant :Assistant Professor, department of Mechanical engineering, Maharishi Markandeshwar (Deemed to be University), Mullana Ambala -----
10)Dr.D.Satheesh Kumar
 Address of Applicant :Associate Professor / Department of CSE, Hindusthan College of Engineering and Technology Coimbatore -----
11)Dr. Talari Lakshmi Narayana
 Address of Applicant :Associate Professor & Head, Department of Electronics and Communication Engineering, Kandula Lakshamma Memorial College of Engineering for Women, Kadapa, Andhra Pradesh, India - 516003 Kadapa -----
12)Dr. Harshal Patil
 Address of Applicant :Associate Professor, Balaji Institute of Technology & Management (BITM), Sri Balaji University, Pune, 411033 Pune -----

(57) Abstract :
 A study on analysing the role of design-oriented pedagogy and machine learning in transforming college education is the proposed invention. The proposed invention focuses on understanding the role of design-oriented pedagogy and machine learning in transforming college education. The invention focuses on transforming the college education using algorithms of Machine Learning.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009091 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ECO-INNOVATIVE NANOCOMPOSITE SYSTEM FOR NEXT GENERATION COSMETICS

(51) International classification :A61Q0019000000, A01G0022000000, A61K0008020000, A61K0008978900, A45D0044000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)M.J.P. ROHILKHAND UNIVERSITY

Address of Applicant :M.J.P. ROHILKHAND UNIVERSITY, BAREILLY-243001, INDIA Bareilly -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Prof. K. P. Singh

Address of Applicant :Vice Chancellor Directorate, M.J.P. Rohilkhand University, Bareilly-243001 Bareilly -----

2)Prof. S. K. Pandey

Address of Applicant :Dean Academic, Head, Department of Applied Chemistry, M.J.P. Rohilkhand University, Bareilly-243001 Bareilly -----

3)Vishesh Kumar Gangwar

Address of Applicant :Department of Applied Chemistry, M.J.P. Rohilkhand University, Bareilly-243001 Bareilly -----

(57) Abstract :

Eco-innovative nanocomposite system for next generation cosmetics is the proposed invention. Eco-Innovative Nanocomposite System for Next-Generation Cosmetics is the proposed invention. The study explores the utilization of novel biocompatible nanoparticles, which are engineered to improve the delivery and stability of active ingredients in cosmetic formulations. This invention unveils a groundbreaking approach in the realm of cosmetic science, introducing a suite of eco-innovative nanocomposite technologies destined to redefine next-generation cosmetic products. Development of innovative nanocomposite technologies tailored for next-generation cosmetics, emphasizing environmentally friendly and sustainable approaches. The research focuses on synthesizing biodegradable nanomaterials compatible with human skin, aiming to enhance the efficacy, safety, and environmental impact of cosmetic products.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008915 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ADAPTIVELY ALLOCATING RESOURCES

(51) International classification :G06N0020000000, H04W0072040000, G06F0009500000, H04W0072120000, G06N0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Rahul
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)KUMAR, Priyanshu
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure provides a system (108) and method for adaptively allocating resources. The system (108) receives request(s) from user(s) (102) for allocating resource(s) (110) to application(s), where the applications (112) and the resources (110) are configured with the system (108). The system (108) receives parameters which are performance metrics indicating the efficiency of allocation of resources (110) from the applications (112). The system (108) analyzes the parameters and allocation of the resources (110) using one or more techniques which may include machine learning technique(s). The system (108) determines allocation of resource(s) (110) to the application(s) (112) based on the analysis. The parameters may be selected by the users (102) and may include response time, throughput, energy consumption, and cost.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008916 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR CYBERSECURITY EVENT DETECTION AND RESPONSE

(51) International classification :G06N0020000000, H04W0012060000, G06F0021570000, G06F0021560000, G06F0003010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MISHRA, Rahul

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)SHARMA, Shubham

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure provides a system (108) for cybersecurity event detection and response. The system (108) includes primary computing devices (112) communicatively coupled to the system (108) over a network (106) via network devices (110). The system (108) is communicatively coupled to secondary computing devices (104) being operated by users (102) via the network (106). The system (108) receives a network traffic data from the network devices (110), at predefined time intervals, and extracts features from the network traffic data. The system (108) detects presence of cybersecurity events, based on the analysis of the network traffic data using techniques which may include machine learning techniques, based on the features. The system (108) initiates responses associated with the cybersecurity events detected, and sends an alert to the users (102). The system (108) transmits a report to the users (102), based on the analysis of the network traffic data.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008918 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMICALLY IDENTIFYING AND THWARTING PHISHING WEBSITES

(51) International classification :H04L0051000000, G06F0021550000, G06N0020000000, G06F0021560000, G06N0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MISHRA, Saket

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi

Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)VANSHIKA

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to system (100) and a method (300) for dynamically identifying and thwarting phishing websites involves simulating, via a website interaction engine, user engagement with suspicious websites on one or more computing devices; observing and documenting via a behavior monitoring engine, the behavior of the suspicious websites throughout simulated interactions; scrutinizing, via an anomaly detection engine (216), the documented behavior to determine abnormal patterns indicative of phishing or malicious activities; extracting, via a feature extraction engine (218) integrated within a machine learning integration module, a plurality of pertinent features from the documented behavior; and evaluating, via a classifier engine (220) trained on historical data, the extracted features to classify the suspicious website as benign, suspicious, or malicious.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008990 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : RAPID AND SENSITIVE DETECTION OF TRICHODERMA ATROVIRIDE AND METHOD THEREOF

<p>(51) International classification :C12N0001140000, G01N0033680000, A01N0063380000, C12Q0001689500, C12R0001885000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. YASHWANT SINGH PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY Address of Applicant :Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan 173 230, Himachal Pradesh, India. SOLAN ----- 2)DR. BHUPESH KUMAR GUPTA Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PAAVAN KALYAN P Address of Applicant :JRF, Department of Plant Pathology, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. SOLAN ----- 2)DR. BHUPESH KUMAR GUPTA Address of Applicant :Sr. Scientist, Department of Plant Pathology, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 3)DR. PANKAJ KUMAR Address of Applicant :Assistant Professor, Department of Biotechnology, College of Horticulture, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 4)DR. ANIL HANDA Address of Applicant :Professor, Department of Plant Pathology, College of Horticulture, Dr. Y S Parmar University of Horticulture and Forestry, Nauni, Solan- 173230, Himachal Pradesh, India. Solan ----- 5)DR. SALEJ SOOD Address of Applicant :Sr. Scientist, Crop improvement Division ICAR-CPRI, Bemloi, Shimla- 171001, Himachal Pradesh, India. Shimla ----- 6)DR. KAILASH CHANDRA NAGA Address of Applicant :Scientist, Plant protection division ICAR-CPRI, Bemloi, Shimla- 171001, Himachal Pradesh, India. Shimla ----- 7)DR. AJAY BRAKTA Address of Applicant :Assistant Professor, Department of Plant Pathology KVK, Shimla- 171207, Himachal Pradesh, India. Shimla ----- 8)DR. BHAWNA DIPTA Address of Applicant :JRF, ICAR-CPRI, Bemloi, Shimla- 171001, Himachal Pradesh, India. Shimla -----</p>
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(57) Abstract :
RAPID AND SENSITIVE DETECTION OF Trichoderma atroviride AND METHOD THEREOF The present disclosure relates to related a rapid and reliable method for detection of Trichoderma atroviride. Present invention not only provides a method for detection but also a kit comprising all the requisite components and reagents required to detect the T. atroviride as per the method of the instant invention. Further, the method of present invention and kit thereof not only provide the quantitative detection of the T. atroviride but also facilitates the qualitative analysis of the T. atroviride in the given sample. Moreover, present invention discloses a protocol to achieve improved band intensities of amplified DNA after performing PCR. This standardization and optimization have been achieved by using a number combination of additives after lots of permutations and combinations in PCR mix. The use of PCR mix of the present invention provides upto 25.56 % improved band intensity.

No. of Pages : 73 No. of Claims : 10

(54) Title of the invention : MACHINE LEARNING BASED FRAUD APPS DETECTION USING SENTIMENT ANALYSIS AND BLOCK CHAIN TECHNOLOGY

<p>(51) International classification :G06Q0030020000, G06Q0030060000, G06N0020000000, G06Q0010100000, G06F0040300000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sanjay Kumar Tuddu Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Shivalik College Dehradun Shiniwala, P.O. Sherpur, Shimla Road, Dehradun – 248197 Utrakhand, India ----- ----- 2)Dr.Rajeshwari S.Mathad 3)Richa Grover 4)Dr. Sheela Gowr Ponrama Subbu 5)Asha Sohal 6)Dr. Kavita Rani 7)Sunny Kuhar 8)Ambrish Kumar Sharma 9)Dr Suneet Kumar 10)Dr.Sandeep Kumar Hegde Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Sanjay Kumar Tuddu Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Shivalik College Dehradun Shiniwala, P.O. Sherpur, Shimla Road, Dehradun – 248197 Utrakhand, India ----- ----- 2)Dr.Rajeshwari S.Mathad Address of Applicant :Associate Professor/ Deputy Registrar, Department of Electronics, B.V.V.Sangha, Basaveshwar Science College, Bagalkot University, State Public University, Mudhol Road, Jamkhandi Bagalkot Karnataka India ----- ----- 3)Richa Grover Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Panipat Institute of Engineering and Technology, Samalkha,Panipat. Haryana India ----- ----- 4)Dr. Sheela Gowr Ponrama Subbu Address of Applicant :Assistant Professor, Department of CSE, Vels Institute of Science, Technology & Advanced Studies (VISTAS),Pallavaram, Chennai, Tamil Nadu, India ----- ----- 5)Asha Sohal Address of Applicant :Assistant Professor, Department of CSE, K R Mangalam University Gurugram, Sohna road, Gurgaon Haryana, India ----- ----- 6)Dr. Kavita Rani Address of Applicant :Assistant Professor Department of Computer Science and Engineering , Panipat Institute of Engineering and Technology , Samalkha,Panipat. Haryana India ----- ----- 7)Sunny Kuhar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Panipat Institute of Engineering and Technology/ Kurukshetra University Kurukshetra, 70 Milestone,NH 44, Samalkha, Panipat, Haryana, India ----- ----- 8)Ambrish Kumar Sharma Address of Applicant :Assistant Professor, Department of Computer Application, Noida Institute of Engineering and Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida (UP) -201306 Gautam Buddha Nagar Uttar Pradesh India ----- ----- 9)Dr Suneet Kumar Address of Applicant :Professor, Department of Computer Science and Engineering, Maharishi Markandeshwar (Deemed to be University) Mullana, Ambala, Haryana, India ----- ----- 10)Dr.Sandeep Kumar Hegde Address of Applicant :Associate Professor, Department of CSE, NMAM Institute of Technology,Affiliated to Nitte (Deemed to be University) Nitte, 574110, Karkala Taluk, Udupi , Karnataka, India -----</p>
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(57) Abstract :
Machine learning based Fraud Apps Detection Using Sentiment Analysis and Block chain Technology ABSTRACT: The rapidly processing data capabilities of machine learning significantly influence the operational procedures of businesses. This technology obviates the need for arduous manual assessments each time new data is acquired, which proves particularly beneficial for businesses undergoing periodic variations in website traffic, sales, or user registrations. Machine learning has the capability to efficiently manage heightened workloads while preserving precision in the face of unexpected traffic surges or periods of high demand. Expertise in this capability is essential for organisations to effectively respond to changing demands, ensure the integrity of data, and accelerate informed decision-making. Presently, a significant proportion of the population employs Android and iOS mobile devices, frequently utilising the functionalities offered by the Play Store or App Store. Regrettably, a portion of the applications available on both marketplaces are fraudulent. These applications have the potential to damage the phone and may even lead to the abduction of data. As a result, labelling these initiatives is essential so that they may be readily identifiable to customers within the retail establishment. We are presenting a proposal for a web application designed to conduct analysis and evaluation of the application's information, remarks, and reviews. Consequently, this will streamline the procedure for ascertaining the legitimacy or fraudulent status of an application. The web application is capable of concurrently processing multiple applications. Additionally, online consumers might not consistently have access to verifiable or accurate product reviews. By analysing the ratings and comments, the administrator will have an easy time determining whether or not the application is legitimate.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008659 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN OPTIMAL HEMODIALYZER MEMBRANE SYSTEM AND ITS DESIGNING METHOD

(51) International classification :G06F0030230000, G06F0111100000, A61M0001160000, G06F0030200000, G06F0030280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Ahana Fatima Alex

Address of Applicant :Department of Electrical and Electronics Engineering, SOEIT, Manipal Academy of Higher Education, Dubai Campus, Dubai, UAE -----

2)Ravishankar Dudhe

3)R. Vinoth

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Ahana Fatima Alex

Address of Applicant :Department of Electrical and Electronics Engineering, SOEIT, Manipal Academy of Higher Education, Dubai Campus, Dubai, UAE -----

2)Ravishankar Dudhe

Address of Applicant :Department of Electrical and Electronics Engineering, SOEIT, Manipal Academy of Higher Education, Dubai Campus, UAE -----

3)R. Vinoth

Address of Applicant :Department of Electronics and Communication Engineering, Manipal Academy of Higher Education, Manipal, India Udupi -----

(57) Abstract :

The present invention generally relates to an optimal hemodialyzer membrane system. The system comprises a pre-processor unit configured to define a set of input parameters for computational fluid dynamics simulations, generate a geometric model representative of a hemodialyzer membrane, and establish meshing conditions, including adaptive sizing based on input conditions and skewness reduction for enhanced simulation accuracy; a solver unit coupled to the pre-processor unit to implement a finite volume method for fluid flow simulations within the hemodialyzer membrane, provide a setup for simulation, including defining boundary conditions and model functionalities, and execute numerical solution approaches, including integration and discretization, to obtain results indicative of fluid dynamics within the hemodialyzer; and a post-processor unit connected to the pre-processor unit to generate convolution plots and outputs representative of fluid behavior in the hemodialyzer membrane upon analyzing and visualizing simulation results and display iterative results for enhanced understanding of the simulation process.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007776 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DYNAMIC CROSS-CORRELATION ANALYSIS BETWEEN CONNECTED VEHICLES AND ONLINE DEVICES

(51) International classification :G06K0009620000, H04W0012128000, H04L0043089400, G06Q0030060000, G06Q0030020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)GARG, Aryan
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :
 The present disclosure pertains to system (102) and method (300) for dynamic cross-correlation analysis between connected vehicles and online devices. The method (300) includes collecting, by a data collection unit (212), a first set of data from the connected vehicles associated with one or more users and a second set of data from online devices associated with the connected vehicles. The method (300) includes processing, by a data processing unit (214), the first set of data and the second set of data. The method (300) also includes analysing, by a data analysis unit (216), by dynamically correlating the processed first set of data with the processed second set of data. Further, the method (300) includes extracting, by a data extraction unit (218), correlated data based on the analysis. Furthermore, the method (300) includes optimising, by a decision making unit (220), traffic management, the one or more users' experience and resource allocation, based on the extracted correlated data.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007777 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : KL TURBINE

(51) International classification :H01L0021687000, F04D0029280000, H02K0007080000, F02C0009000000, F01D0011000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHARMA, Sonu

Address of Applicant :CUIET, Department of Mechanical Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

A turbine assembly (100) comprising a first support plate (102), a second support plate (104), and a plurality of blades (106) radially positioned between the first support plate (102) and the second support plate (104). Each blade (106) is spaced apart from one another, allowing passage of air between adjacent blades. The plurality of blades (106) is adapted to rotate along with the first support plates (102) and the second support plate (104) about a central axis, in response to thrust generated by the air.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007778 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING ACCESS IN A NETWORK

(51) International classification :H04L0045000000, H04M0003560000, A61M0021020000, H04L0065800000, H04R0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)SINGH, Dhiraj
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)GOYAL, Ayush
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure pertains to system (102) and method for controlling access in a network (106). The system (102) comprises a plurality of endpoint devices (104) and an authentication unit (212) configured to perform authentication analyse behavioural patterns of one or more users of the plurality of endpoint devices (104). The system (102) comprises a storage unit to store a plurality of historical data associated with the behavioural patterns and a set of policies to be used by the plurality of endpoint devices (104). The system (102) comprises an access adjustment unit (216) configured to establish baseline behavioural patterns for the one or more users and dynamically adjusts the access of the plurality of end point devices, based on deviations of the behavioural patterns from the baseline and, the set of policies. The system (102) comprises a monitoring unit (218) to trigger adaptive responses based on the deviations.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007779 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM TO MANAGE CYBER-SECURITY MATURITY OF AN ENTITY

(51) International classification :G06F0016220000, H04W0004700000, G16H0040200000, G06N0020000000, G06N0005020000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)MISHRA, Rahul
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
2)PANDEY, Sakshi
Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
3)KAUR, Gagandeep
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

A system (100) to manage cyber-security maturity of an entity includes a controller (102) operatively coupled to one or more learning engine (104), the controller (102) coupled to a memory (106) storing instructions executable by the controller (102) to: collect, data across one or more data repository (108) within an entity; determine one or more security protocol (110) from the collected data; analyse, the determined security protocol (110) with a pre-fed dataset stored within the memory (106) using the learning engine (104); and generate, upon analysing security protocol (110) the recommendations on the existing security protocol (110) to the user of the system (100).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009105 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A NON-PRESSURIZED TOPICAL SPRAY EMULSION OF MICONAZOLE AND NEOMYCIN

(51) International classification :A61K0009000000, A61P0017000000, A61K0031417400, A61P0031100000, A61K0047100000

(86) International Application No Filing Date :NA :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA :NA

(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

1)Prof. (Dr.) Pawan Kumar Jalwal
Address of Applicant :Dean & Head, Faculty of Pharmaceutical Sciences, Baba Mastnath University, Rohtak. Pin Code 124001 -----

2)Dr. Neelam Pawar

3)Ms. Shailja

4)Mr. Rahul Pawar

5)Hanumant Alias Abhishek Garg

6)Ms. Reena Sheoran

7)Anusha

8)Mr. Deepak Yadav

9)Mr. Ashish Gaba

10)Mr. Nitish Kumar

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Prof. (Dr.) Pawan Kumar Jalwal
Address of Applicant :Dean & Head, Faculty of Pharmaceutical Sciences, Baba Mastnath University, Rohtak. Pin Code 124001 -----

2)Dr. Neelam Pawar
Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

3)Ms. Shailja
Address of Applicant :Assistant Professor, Faculty of Pharmaceutical Sciences, Baba Mastnath University, Rohtak. Pin Code 124001 -----

4)Mr. Rahul Pawar
Address of Applicant :Manufacturing Chemist, Belco Pharma, Bahadurgarh, Haryana-124507 Bahadurgarh -----

5)Hanumant Alias Abhishek Garg
Address of Applicant :Assistant Professor, Department of Pharmacy, SDM College of Pharmacy, Rajound, Kaithal -----

6)Ms. Reena Sheoran
Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

7)Anusha
Address of Applicant :Assistant Professor, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

8)Mr. Deepak Yadav
Address of Applicant :Research Scholar, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

9)Mr. Ashish Gaba
Address of Applicant :Research Scholar, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

10)Mr. Nitish Kumar
Address of Applicant :Research Scholar, Department of Pharmaceutical Sciences, Chaudhary Bansi Lal University, Bhiwani, Haryana-127021 -----

(57) Abstract :

The invention relates to the design, development and evaluation of non-pressurized topical spray of antimicrobial and antifungal drug for skin diseases. Pre-formulation Studies was conducted as API Characterization, Organoleptic Characterization, FTIR Spectroscopy, Clarity of Solution, Acidity and Alkanity. The solubility findings of pure Miconazole were Ethanol, Water and Acetone. Photo stability testing of optimized formulation was done using Indoor Artificial Light and Outdoor Lighting at different intensity. In-vitro Miconazole and neomycin was found to be 95.31(%) which is very good and more than marketed formulation. stability studies were conducted for the optimized formulation i.e. F13, results obtained were under acceptance criterion in accordance to ICH guideline. There was no significant change in stability results after 2 month. The topical spray product had made a huge difference in the daily lives of patients with a variety of disorders.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009107 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD AND SYSTEM FOR CLOUD COMPUTING RESOURCES ALLOCATION

(51) International classification :G06F0009500000, G06Q0010060000, H04L0067109700, G06F0011300000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Sanjay Gour
 Address of Applicant :Professor & Head, Department of Computer Science & Engineering, Jaipur Engineering College & Research Centre, Jaipur, Pin: -302022 -----
2)Dr. Iti Sharma
3)Dr. Jhankar Moolchandani
4)Dr. Rishi Pandey
5)Dr. Gowri R Choudhary
6)Dr. Mairaj Salim
7)Dr. Asma Zaheer
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Sanjay Gour
 Address of Applicant :Professor & Head, Department of Computer Science & Engineering, Jaipur Engineering College & Research Centre, Jaipur, Pin: -302022 -----
2)Dr. Iti Sharma
 Address of Applicant :Lecturer, Department of Computer Science, Government Polytechnic College, Kota -----
3)Dr. Jhankar Moolchandani
 Address of Applicant :Assistant Professor, Department of Computer Science, Amity University, Gwalior (M.P.) -----
4)Dr. Rishi Pandey
 Address of Applicant :Technical Assistant, Department of Computer Science, Birla Institute of Technology, Mesra (Jaipur) -----
5)Dr. Gowri R Choudhary
 Address of Applicant :Assistant Professor, Department of Computer Science, Rajasthan Technical University, Kota -----
6)Dr. Mairaj Salim
 Address of Applicant :Professor, School of Business Studies, Shobhit University, Meerut (U.P.) -----
7)Dr. Asma Zaheer
 Address of Applicant :Associate Professor, Department of Marketing, Faculty of Economics and Administration, King Abdulaziz University, Jeddah, Saudi Arabia -----

(57) Abstract :

The present invention relates to a method and system for cloud computing resources allocation, revolutionizing traditional static allocation approaches. The system dynamically adapts to real-time data, continuously monitoring workload characteristics, performance metrics, and user demands in a cloud environment. Employing adaptive and predictive resource allocation techniques, it utilizes machine learning and predictive analytics to optimize allocation preemptively. Intelligent monitoring mechanisms, including continuous performance monitoring and automated recovery, enhance decision-making. The system features dynamic scaling capabilities for automatic adjustments to allocated resources, ensuring efficiency and responsiveness. The invention's holistic approach enhances the efficiency, reliability, and cost-effectiveness of cloud computing operations, marking a significant advancement in the field. Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009111 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SKIN N SENSE: A COMPREHENSIVE HEALTH MONITORING SYSTEM

(51) International classification :G16H0050300000, A61B0005000000, G16H0050200000, G16H0040670000, G16H0010200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Harsh khatter

Address of Applicant :54, Narayan Sadan, Anandi Pura, Gurudwara Road, Modinagar -----

2)Mr. Pawan Kumar Pal

3)Tryamb Sachan

4)Suryansh Awasthi

5)Shivam Singh

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Pawan Kumar Pal

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

2)Tryamb Sachan

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

3)Suryansh Awasthi

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

4)Shivam Singh

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

5)Dr. Harsh Khatter

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 GHAZIABAD -----

(57) Abstract :

This invention, Skin n Sense, is a digital health and wellness application that amalgamates technology and healthcare, offering a comprehensive system for health assessment. The innovative system primarily focuses on skin health analysis and mood assessment, recognizing the intricate relationship between physical health, particularly skin conditions, and mental health challenges. This aims to empower users and healthcare professionals alike by providing early detection of potential skin diseases, allowing for timely medical intervention. Simultaneously, the system assesses the user's mood and emotional state, contributing to a deeper understanding of well-being. The invention offers an integrated solution that seamlessly incorporates Machine Learning for skin disease prediction and segmentation, ultimately enhancing the quality of life. The details are shown in figures of the present enclosure.

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008667 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DECENTRALIZED DYNAMIC CYBER INSURANCE WITH DISTRIBUTED LEDGER

(51) International classification :H04L0009320000, G06Q0040080000, H04L0009060000, G06Q0020400000, H04L0067120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)SHARMA, Vaibhav
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure pertains to a system (100) and a method (200) for decentralized dynamic cyber insurance with a distributed ledger. The method (200) comprises communicating, by one or more processors (102), with one or more smart contracts with pre-defined terms and conditions criteria on the distributed ledger. The method (200) comprises executing, by the one or more processors (102), the one or more smart contracts to automate one or more insurance processes. The method (200) comprises validating, by the one or more processors (102), an application data submitted by a policyholder against the pre-defined terms and conditions criteria in the one or more smart contracts. The method (200) also comprises issuing, by the one or more processors (102), a policy insurance based on the validated application data. Further, the method (200) comprises recording the terms and conditions of the policy insurance on the distributed ledger.

No. of Pages : 26 No. of Claims : 10

(54) Title of the invention : CLOTH RECOGNITION AND WASHING ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED

(51) International classification :G06N0003080000, G06N0003040000, G09B0021000000, A61H0003060000, G01J0003460000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)SHARMA, Jagdeep
Address of Applicant :Manager, Chitkara Alumni Association Network, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)SHARMA, Ishu
Address of Applicant :Assistant Professor-Research, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

--

3)PAHUJA, Vanshika
Address of Applicant :B.E., Computer Science Engineering, Chitkara University Institute of Engineering and Technology, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

A color recognition of cloth and washing assistance system (102) is disclosed that revolutionizes laundry for the visually impaired. The system (102) includes an image acquisition unit (106) and a controller (104) employing machine learning techniques, this system (102) identifies cloth colors using deep learning. The system (102) generates voice signals instructing users about washability and color characteristics, ensuring effective cloth management. Additionally, a wood stick, with a detachable pad, aids in color detection and intensity analysis. The controller (104) equipped with a neural network, accurately quantifies color intensity on the wood stick. Additionally, the system receives user washing preferences via a microphone, enhancing personalization. Seamlessly integrating technology and user-friendly features, this system empowers (102) visually impaired individuals to confidently manage their laundry, providing a level of independence and convenience.

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008670 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ENHANCED CYBERSECURITY THROUGH NEURAL EMBEDDING

(51) International classification :G06N0003080000, G06N0003040000, G06F0011340000, G06F0021550000, G06F0021570000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Bluest Mettle Solutions Private Limited
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)MISHRA, Saket
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

2)PANDEY, Sakshi
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

3)SINGH, Yuvraj
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

Aspect of the present disclosure relates to method and a system (100) for optimizing the efficiency and effectiveness of cyber-attack detection, forecasting, and classification is disclosed. The method includes collecting and curating, via a data collection module (212), historical cyber-attack datasets; training, via a training module (214), deep neural networks and incorporating neural embeddings to the said curated historical cyber-attack datasets; optimizing, via an optimization module (216), weights and parameters to capture nuanced patterns and relationships; analyzing, via a data analysis module (218), real-time analysis of incoming data streams, and enabling the identification of anomalies, similarities, and patterns; comparing, via a detection module (220), real-time data with learned embeddings to identify known attack patterns, facilitating timely alerting of security personnel or automated response systems.

No. of Pages : 28 No. of Claims : 8

(54) Title of the invention : SUSTAINABLE DEVELOPMENT AND SUPPLY CHAIN INTEGRATION: LIFE CYCLE EVALUATION IN THE ENERGY INDUSTRY AND AGRICULTURAL BIOTECHNOLOGY

<p>(51) International classification :G06Q0010060000, G06Q0010100000, G06Q0030020000, G06Q0050020000, G06Q0050260000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Ajay Singh Yadav Address of Applicant :Associate Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 2)Dr. Nidhi Kumar 3)Dr. Ritu Sharma 4)Ms. Rashi Agarwal 5)Dr. Mandeep Mittal 6)Dr. Priyanka Agrawal 7)Dr. Anupam Swami 8)Mr. Suryansh Ahlawat Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Ajay Singh Yadav Address of Applicant :Associate Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 2)Dr. Nidhi Kumar Address of Applicant :Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 3)Dr. Ritu Sharma Address of Applicant :Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 4)Ms. Rashi Agarwal Address of Applicant :Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 5)Dr. Mandeep Mittal Address of Applicant :Professor and Head, Department of Mathematics, School of Computer Science Engineering and Technology, Bennett University, Techzone-II, Greater Noida-201310, Uttar Pradesh ----- 6)Dr. Priyanka Agrawal Address of Applicant :Assistant Professor, Department of Mathematics, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh ----- 7)Dr. Anupam Swami Address of Applicant :Assistant Professor, Department of Mathematics, Km. Mayawati Government Girls P.G. College, Badalpur, G. Noida, 203207, Uttar Pradesh ----- 8)Mr. Suryansh Ahlawat Address of Applicant :B.Tech. Student, Department of CSE-Data Science, SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad, 201204, Uttar Pradesh -----</p>
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(57) Abstract :
[040] This invention proposes a multifaceted approach to address the complex challenges of sustainability and supply chain integration within the energy industry and agricultural biotechnology sectors. The method involves conducting comprehensive life cycle evaluations that consider environmental, social, and economic factors throughout the entire lifecycle of energy production and agricultural biotechnology processes. By integrating sustainability considerations into supply chain decision-making, stakeholders can optimize resource utilization, minimize environmental impacts, and drive positive change. Collaboration among diverse stakeholders, including government agencies, private enterprises, academic institutions, and civil society groups, is fostered to advance sustainability goals. Transparency, accountability, and continuous improvement are emphasized, empowering consumers, investors, and policymakers to make informed decisions. Overall, this invention offers a comprehensive solution to promote sustainability and resilience in the face of evolving challenges, paving the way for a more prosperous and equitable future. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : PHARMACOGENOMIC PROFILING FOR PERSONALIZED MEDICATION REGIMENS

<p>(51) International classification :G16H0010600000, C12Q0001688300, H04W0036140000, G16H0020100000, G16H0015000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Shalu Kashyap Address of Applicant :Assistant Professor, Department of Pharmacognosy, College of Pharmacy, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, Pincode: 147301 -----</p> <p>2)Abrar Ahmad Zargar</p> <p>3)Marie Reine Maboune Kamdem</p> <p>4)Ms. Neha Sharma</p> <p>5)Arshi Khanam</p> <p>6)Dr. Rojin G Raj</p> <p>7)Maninder Preet Kaur</p> <p>8)Amandeep Kaur</p> <p>9)Ranjeet Kumar</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Shalu Kashyap Address of Applicant :Assistant Professor, Department of Pharmacognosy, College of Pharmacy, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, Pincode: 147301 -----</p> <p>2)Abrar Ahmad Zargar Address of Applicant :Assistant Professor, School of Pharmacy, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, Pincode: 147301 -----</p> <p>3)Marie Reine Maboune Kamdem Address of Applicant :Research Scholar, Department of Pharm D, Karnataka College of Pharmacy, Bengaluru, Pincode: 560064 -----</p> <p>4)Ms. Neha Sharma Address of Applicant :Assistant Professor, Department of Pharmaceutics, Bharat Institute of Pharmacy Degree Course, Babain, Kurukshetra, Pincode: 136135 -----</p> <p>5)Arshi Khanam Address of Applicant :Assistant Professor, School of Pharmacy, Suresh Gyan Vihar University, Jaipur, Pincode: 302017 -----</p> <p>6)Dr. Rojin G Raj Address of Applicant :Assistant Professor, Department of Pharmacy Practice, ISF College of Pharmacy, Moga, Pincode: 142001 -----</p> <p>7)Maninder Preet Kaur Address of Applicant :Associate Professor/Research Scholar, Department of Pharmaceutics, RIMT University, Mandi Gobindgarh, Fatehgarh Sahib, Punjab, Pincode: 147301 -----</p> <p>8)Amandeep Kaur Address of Applicant :Student, Department of Pharmacy Practice, ISF College of Pharmacy, Moga, Pincode-142001 -----</p> <p>9)Ranjeet Kumar Address of Applicant :Associate Professor, Department of Pharmacy Practice, ISF College of Pharmacy, Moga, Pincode-142001 -----</p>
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(57) Abstract :
 Our proposed invention introduces a novel pharmacogenomic profiling system for personalized medication regimens, revolutionizing healthcare delivery by tailoring treatment approaches to individual genetic profiles. Leveraging advanced genomic technologies, our system analyzes genetic variations associated with drug metabolism, efficacy, and toxicity, providing healthcare providers with actionable insights to optimize therapeutic outcomes and minimize adverse reactions. Through a comprehensive analysis of an individual's genetic makeup, our system enables the prediction of drug responses and the customization of medication regimens across diverse therapeutic areas, including oncology, psychiatry, cardiology, and infectious diseases. By integrating pharmacogenomic data into clinical practice, our invention enhances treatment efficacy, improves patient safety, and drives the adoption of precision medicine principles in healthcare settings worldwide.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009023 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR GENERATING DYNAMIC AND PERSONALIZED LINEAR CHANNEL FEEDS ON AN OVER-THE-TOP PLATFORM

(51) International classification :H04N0021810000, H04L0067020000, H04N0021433000, H04N0021266800, G06F0016953500

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RUNN MEDIA LABS PRIVATE LIMITED

Address of Applicant :Plot No. A3, A4, IT Park, Sahastradhara Road, Dehradun City, Dehradun- 248001, Uttarakhand, India
Dehradun -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)ARVIND KUMAR

Address of Applicant :L-16, DELTA-II, GREATER NOIDA, GAUTAM BUDH NAGAR, UP-201308 GAUTAM BUDH NAGAR -----

2)MANISH SINHA

Address of Applicant :61 MAYUR RESIDENCY, PICNIC SPOT ROAD, FARIDINAGAR, LUCKNOW - 226015 Lucknow -----

(57) Abstract :

The disclosed embodiments pertain to a system and method designed for generating dynamic and personalized linear channel feeds for over-the-top (OTT) streaming platforms. This system and method encompass a multitude of users registered with the OTT platform across various operating devices, each equipped with storage capacity for numerous computer-implemented instructions and featuring a user interface. The servers, intricately linked with the user interfaces of these operating devices, store a plethora of information destined for display on their respective display devices. Operating in tandem with this infrastructure are a processing module on the servers, responsible for manipulating live streaming manifests that support essential tags for linear or video-on-demand streaming, ad-insertion, multi-audio, different rendition management, graphics, and subtitles. Additionally, a data collection module on the user interface gathers a diverse range of user behavior data, encompassing watch history, searches, navigation, and content consumption behavior. The analysis of this data yields valuable insights into user preferences and engagement patterns, facilitating the determination of schedules and linear playlists at the user level.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007884 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : LANDMINE SYSTEM AND METHODS THEREOF

(51) International classification :A61B0090980000, G06K0019077000, G07G0001000000, G06K0007000000, A43B0003000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Vans Tiwari
Address of Applicant :S/o Prashant Tiwari 14/309, Binauli Raod, New Ram Nagar, Baraut, Baghpat UP-250611, India Baghpat -----

2)Deepak Mittal
3)ACIC MIET Meerut Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Vans Tiwari
Address of Applicant :S/o Prashant Tiwari 14/309, Binauli Raod, New Ram Nagar, Baraut, Baghpat UP-250611, India Baghpat -----

2)Deepak Mittal
Address of Applicant :Vill/Post Kundeshwari Kashipur, U.S.Nagar, Uttarakhand Pin-244713, India U.S.Nagar -----

3)ACIC MIET Meerut Foundation
Address of Applicant :NH-58, Near Baghpat Bypass Crossing, MIET Campus, Meerut-250005, India Meerut -----

(57) Abstract :

ABSTRACT LANDMINE SYSTEM AND METHODS THEREOF In an aspect, the present disclosure discloses a landmine system (100) and methods (200, 300) thereof. The landmine system (100) includes a footwear (102) equipped with a RFID chip, a landmine (150) configured with a RFID scanner (164), which if reads the RFID chip causes a relay to turn ON and if does not detect any RFID chip in the footwear (102) or does not read the RFID chip therein, causes the relay to remain turn OFF, thereby causing triggering of explosion of the landmine. Thus, the system (100) prevents undesirable explosion of the landmine. Figures 1 A, 2 and 3

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007885 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PORTABLE ANIMAL TRAP CAGE

(51) International classification :A01M23/18,
A01M23/20
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)National Institute of Technology Uttarakhand

Address of Applicant :Srinagar Campus, Infront of Mahila Police Thana, Srinagar (Garhwal), Distt. -Pauri-Garhwal, Uttarakhand-246174, India Srinagar -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Vinod Singh Yadav

Address of Applicant :National Institute of Technology, Uttarakhand, Srinagar Campus, Infront of Mahila Police Thana, Srinagar (Garhwal), Distt. -Pauri-Garhwal, Uttarakhand-246174, India Srinagar -----

2)Vikas Kukshal

Address of Applicant :National Institute of Technology, Uttarakhand, Srinagar Campus, Infront of Mahila Police Thana, Srinagar (Garhwal), Distt. -Pauri-Garhwal, Uttarakhand-246174, Ind Srinagar -----

3)Dungali Sreehari

Address of Applicant :National Institute of Technology, Uttarakhand, Srinagar Campus, Infront of Mahila Police Thana, Srinagar (Garhwal), Distt. -Pauri-Garhwal, Uttarakhand-246174, India Srinagar -----

4)Nishant Kumar

Address of Applicant :National Institute of Technology, Uttarakhand, Srinagar Campus, Infront of Mahila Police Thana, Srinagar (Garhwal), Distt. -Pauri-Garhwal, Uttarakhand-246174, India Srinagar -----

5)Swapnil Anirudha Woyal

Address of Applicant :Divisional Forest officer, Garhwal Forest Division, Pauri-246001, India Pauri -----

(57) Abstract :

ABSTRACT PORTABLE ANIMAL TRAP CAGE The present disclosure discloses a portable light-weight animal trap cage (100). The cage (100) includes three sections- an entry cage (102), a center stage (104), and a bait cage (106). Before trapping animal, the entry cage (102) and the center cage (104) are fastened together manually and may be configured to get detached after the animal is trapped thereinto. Both the cages (102, 104) are connected to each other via a removable string (104F) which is when pulled by contact of body of the animal to be trapped with a triggering gate (104D), triggers a lever mechanism (102B) to cause automatic shut-down of a first trap gate (102C). The bait cage (106) may be attached to rear side of the center cage (104) after the animal is trapped and the entry cage (102) may be removed, thus the cage (100) is a light-weight, and easy to transport through hilly area or narrow lanes. Figure 1A

No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007901 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR THE CONCEPTUALIZATION AND VALIDATION OF A SCALE DESIGNED TO MEASURE PATRIOTISM

(51) International classification :G06Q0030020000, G06Q0010060000, G16H0040630000, G01N0033000000, G06Q0099000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NIHARIKA

Address of Applicant :FLAT NO-141, AZAD HIND CGHS SECTOR-9, PLOT NO-15, DWARKA, NEW DELHI-110075 ----

2)PROF. RAJAN YADAV

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)NIHARIKA

Address of Applicant :FLAT NO-141, AZAD HIND CGHS SECTOR-9, PLOT NO-15, DWARKA, NEW DELHI-110075 ----

2)PROF. RAJAN YADAV

Address of Applicant :DELHI SCHOOL OF MANAGEMENT, DELHI TECHNOLOGICAL UNIVERSITY -----

(57) Abstract :

The invention pertains to a Patriotism Measurement System, meticulously designed to quantify patriotism's impact on consumer behavior within branding strategies. Utilizing a multidimensional scale validated through exploratory and confirmatory factor analysis, the system discerns crucial indicators such as country love, pride, and prosperity. Modules dedicated to data collection, conceptualization, scale development, validation, and adaptive learning ensure the system's robustness across diverse populations. Continuous refinement, informed by real-world feedback and evolving societal perceptions, sustains the measurement scale's relevance over time. Marketers benefit from a user-friendly interface presenting intuitive patriotism measurements, enabling informed decision-making. This innovative system overcomes traditional method limitations, providing a scalable, efficient solution for patriotism measurement in branding strategies, thus bolstering the efficacy of marketing campaigns and fostering brand engagement.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411007939 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FABRICATION AND CHARACTERIZATION OF 3-DIMENSIONAL TABLETS OF LAMOTRIGINE BY USING FUSED DEPOSITION MODELLING

(51) International classification	:A61K9/16, A61K9/20, B29C48/00, B29C64/106, B33Y10/00, B33Y70/00, B33Y70/10	(71)Name of Applicant : 1)Dr. Ashutosh Badola Address of Applicant :Associate Professor, School of Pharmaceutical Sciences, Shri Guru Ram Rai University, Patel Nagar, Dehradun-248001, Uttarakhand, India -----
(86) International Application No	:NA	2)Pallavi Joshi Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Ashutosh Badola
Filing Date	:NA	Address of Applicant :Associate Professor, School of Pharmaceutical Sciences, Shri Guru Ram Rai University, Patel Nagar, Dehradun-248001, Uttarakhand, India -----
(62) Divisional to Application Number	:NA	2)Pallavi Joshi
Filing Date	:NA	Address of Applicant :Associate Professor, Himalayan Institute of Pharmacy and Research, Atak Farm, Rajawala, Dehradun-248007, Uttarakhand, India -----

(57) Abstract :

[26] This invention presents a groundbreaking method for designing Lamotrigine-containing matrix tablets through the synergistic integration of hot-melt extrusion (HME) and 3D printing technologies. The primary objective is to enhance the efficiency of tablet production by improving mechanical and printability properties. The method involves the development of a precise High-Performance Liquid Chromatography (HPLC) technique for Lamotrigine quantification. Investigation into blend ratios of Polyvinyl Alcohol (PVA), Lamotrigine, and Triethyl Citrate (TEC) optimizes mechanical and printability characteristics of extruded filaments. The resulting formulation, when processed with 3D printing, yields tablets with uniform drug content, superior mechanical attributes, and effective drug release. This innovative approach signifies a significant advancement in pharmaceutical manufacturing, offering a unique combination of HME and 3D printing for efficient and reproducible production of Lamotrigine matrix tablets with enhanced properties.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009272 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM TO PROVIDE A LEGAL ASSISTANCE

(51) International classification :G06Q0010100000, H04N0007150000, H04N0001440000, G06F0021600000, H04L0051020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)VAISHNAVI GUPTA
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

2)KEERTI AGARWAL
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

3)MUKUL JAIN
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

4)NIKHIL KUMAR MISHRA
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

5)ASHWANI TRIPATHI
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

6)GEETANJALI NAYAK
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

7)MR. NILOTPAL PATHAK
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

8)DR. SANSAR SINGH CHAUHAN
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

(57) Abstract :
 SYSTEM TO PROVIDE A LEGAL ASSISTANCE Abstract The present disclosure outlines a legal assistance system, integrating an interactive chatbot interface that informs users about mediation, constitutional rights, and case lodging processes. Central to the system is a security subunit equipped with advanced data encryption and secure document storage, ensuring confidentiality during mediation sessions. A storage memory houses a mediator database with detailed profiles of accredited mediators, including qualifications, experience, and user-generated ratings and reviews. The system incorporates a conflict-of-interest detection unit with a neutrality assurance module, upholding mediator impartiality. Additionally, a virtual mediation environment is provided, supporting secure video conferencing and document sharing, facilitating participation from diverse geographical locations. The system also includes a digital agreement signing unit for electronic signing and enforcement of settlement agreements. A scheduling unit is integrated to coordinate and adaptively reschedule mediation sessions, enhancing the system's efficiency and user convenience.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009273 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AGRICULTURAL MANAGEMENT DEVICE

(51) International classification :G06Q0050020000, A01G0025160000, A01B0079000000, G06Q0030060000, G01W0001100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DEVANSH SRIVASTAVA

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

2)DR MOHAN SINGH

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

3)ADITYA SINGH

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

4)AINA SRIVASTAVA

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

5)SHRUTI GUPTA

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

6)AADARSH THAKUR

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

7)ADITYA RAJ SINGH

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida

(57) Abstract :

Agricultural Management Device Abstract The present disclosure introduces an advanced agricultural management device aimed at boosting agricultural efficiency and productivity. Said device integrates a suite of hardware sensors for precise soil moisture measurement, informing irrigation needs. A data visualization module creates heat maps, delineating diverse water requirements across various field zones. Coupled with the visualization module, a weather forecasting module delivers accurate predictions for informed irrigation and cropping decisions. Additionally, a disease information module aids in early detection and management of crop diseases. An e-commerce platform module streamlines direct transactions between farmers, suppliers, and buyers, eliminating middlemen. Finally, a user interface empowers farmers with data-driven decision-making capabilities and effective agricultural operation management.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009274 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM TO CONTROL PHOTO SHARING ON ONLINE SOCIAL MEDIA NETWORKS

(51) International classification :G06Q0050000000, G06F0021620000, H04L0051520000, G06F0016583000, G06F0016270000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida ----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)VIKAS CHANDRA TRIPATHI
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida ----

2)DR. SHIVANI JOSHI
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida ----

3)DR. RAJIV KUMAR
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida ----

(57) Abstract :
 System to control photo sharing on online social media networks Abstract The present disclosure encompasses a system designed for controlling photo sharing on online social media networks. Said system includes a first means for collecting private photo sets from a user and a second means for formulating personalized privacy and exposure policies, along with defining access permissions for said photo sets. A personalized facial recognition engine is trained with the user's private photo sets to enhance identification accuracy. Additionally, the system features a secure multi-party computation module for safeguarding user data and sensitive information. A contextual identity recognition unit utilizes contextual data from social media networks to accurately recognize individuals in the private photo sets. Lastly, a notification unit is incorporated to alert the user, thus enhancing control over photo sharing activities on social media platforms.

No. of Pages : 29 No. of Claims : 10

(54) Title of the invention : AI-DRIVEN OPTIMIZATION FOR GREEN COMPUTING

(51) International classification :G06N0020000000, G06Q0010060000, G06F0009500000, G06N0003040000, G06Q0050060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Gaurav Dubey
 Address of Applicant :B 201 rail Vihar sector 3 vasundhara -----
2)Dr. Gaurav Dubey
3)Dr. Kamaljit Kaur
4)Dr. Kamlesh Sharma
5)Dr. Neha Garg
6)Dr. Shefali Singhal
7)Ms. Arpita Dubey
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Gaurav Dubey
 Address of Applicant :B 201 rail Vihar sector 3 vasundhara -----
2)Dr. Gaurav Dubey
 Address of Applicant :KIET Group of Institutions Delhi-NCR, Meerut Road (NH-58) Ghaziabad - 201206 ghaziabad -----
3)Dr. Kamaljit Kaur
 Address of Applicant :Guru Nanak Dev University Amritsar Amritsar -----
4)Dr. Kamlesh Sharma
 Address of Applicant :Manav Rachna International Institute of Research and Studies, Faridabad faridabad -----
5)Dr. Neha Garg
 Address of Applicant :Manav Rachna International Institute of Research and Studies, Faridabad -----
6)Dr. Shefali Singhal
 Address of Applicant :Manav Rachna International Institute of Research and Studies, Faridabad -----
7)Ms. Arpita Dubey
 Address of Applicant :Indira Gandhi Delhi Technical University for Women, Kashmere Gate, New Delhi -----

(57) Abstract :
 The invention heralds a groundbreaking paradigm shift in the realm of computing by introducing a cutting-edge AI-driven optimization framework dedicated to the cause of green computing. Its primary mission is nothing short of revolutionary: to usher in a new era of energy efficiency and environmental responsibility within the computing landscape. By harnessing the power of state-of-the-art machine learning algorithms, this ingenious system stands as a beacon of hope for addressing one of the most pressing challenges of our time. At its core, this innovation is driven by a relentless pursuit of reducing the energy consumption associated with computing operations. It recognizes that the environmental impact of the IT industry cannot be underestimated, and thus, it seeks to lead the charge towards a more sustainable future. Through the seamless integration of advanced AI and machine learning techniques, this system has the unique ability to dynamically adapt and fine-tune computing resources and processes. What sets this invention apart is its unwavering commitment to achieving optimal energy efficiency. Unlike conventional approaches, which often operate with static configurations, this dynamic framework continually analyzes real-time data, identifying opportunities for resource optimization. It is a testament to the power of AI, capable of making instant decisions to ensure that computing operations are carried out with the utmost efficiency and minimal environmental impact. Furthermore, the scope of this innovation extends far beyond the confines of a single computing environment. It is designed to be inherently scalable, catering to a wide spectrum of computing platforms and industries. Whether it's a small-scale device or a sprawling data center, this system offers its transformative capabilities, making no compromises in its pursuit of energy efficiency. In essence, the AI-Driven Optimization for Green Computing is not just an invention; it's a rallying cry for sustainability in the world of computing. It is a beacon of hope, a catalyst for change, and a testament to human ingenuity. It stands as a testament to what can be achieved when technology is harnessed for the greater good, championing a greener, more environmentally responsible future for computing.

No. of Pages : 17 No. of Claims : 4

(54) Title of the invention : INTERACTIVE WEB PLATFORM TO EXPLORE CULINARY CREATIVITY

(51) International classification :G06Q0030060000, G16H0020600000, G06F0016245700, H04L0067020000, G06Q0050120000

(86) International Application No :NA
 Filing Date :NA

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(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)MAHAK NARANG
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

2)ANAJLI PANDEY
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

3)BUSHRA KHAN
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

4)SANDEEP SINHA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

5)ALI BAKHTIYAR
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

6)SARA PARVEEN
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :
 INTERACTIVE WEB PLATFORM TO EXPLORE CULINARY CREATIVITY Abstract An interactive web platform is disclosed for enhancing culinary creativity, integrating a user input module for receiving culinary preferences, a data processing engine for processing these preferences, a storage memory containing a recipe database, and a customization module for generating personalized culinary suggestions. Said platform streamlines the culinary exploration process by adapting to individual tastes and dietary needs, leveraging advanced data processing techniques. Said platform facilitates a unique and user-centric cooking experience, offering tailored recipe recommendations and culinary guidance.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009118 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MACHINE LEARNING BASED HEART DISEASE PREDICTION MODEL USING CARDIOVASCULAR RISK FACTORS

(51) International classification :G06N0020000000, G16H0050300000, G06N0003080000, G16H0050200000, G16H0050700000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)SEEMA VERMA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

2)ANKIT GAMBHIR
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

3)RADHA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

4)RAMANI KANT JHA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

5)NISHTHA DEEP
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

6)ARIDAMAN KUMAR
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

(57) Abstract :
 MACHINE LEARNING BASED HEART DISEASE PREDICTION MODEL USING CARDIOVASCULAR RISK FACTORS Abstract The present disclosure presents a system for predicting heart disease using a machine learning approach based on cardiovascular risk factors. The system incorporates a data acquisition module for collecting patient-specific risk factor data. The collected data undergoes standardization and normalization in a preprocessing unit, ensuring data uniformity and accuracy. A machine learning module includes a specially trained algorithm that analyses said processed data to predict the likelihood of heart disease. The system is completed with an output interface, seamlessly linked to the machine learning module, which effectively communicates the prediction results to either healthcare providers or patients, facilitating timely and informed medical decision-making.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009030 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGN OF A SELF-SUSTAINABLE ZERO ENERGY HOUSE

(51) International classification :G06Q0050060000, H02J0003000000, H02J0003380000, F24F0005000000, G06Q0030020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Rajeev Kumar Chauhan

Address of Applicant :F-201, T-6, GH-1, NRI City -----

2)Kalpana Chauhan

3)Shaurya Chauhan

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rajeev Kumar Chauhan

Address of Applicant :Dayalbagh Educational Institute Agra Agra -----

2)Kalpana Chauhan

Address of Applicant :Central University of Haryana Mahendragarh Mahendragarh -----

3)Shaurya Chauhan

Address of Applicant :1st, floor , Chauhan Villa Near Railway Station Mahendragarh -----

(57) Abstract :

Present invention deals with the self-sustainable net zero energy house. In India there is changing weather. Sometimes it is sunny, rainy, and windy. In some situations, there is power failure means the supply from the grid is not available and long failure leads to flop the supply from the house inverter. In these circumstances there is need to make the house energy sustainable by utilizing the natural resources. The drainage water in rainy seasons is generally get wasted. It is a fabulous thing if we utilize this water also to contribute to supplying the house load. The use of renewable energy resources leads to low carbon emission to supply a house load. Notably, the system leverages the drainage water, a typically underutilized resource, to generate additional energy, particularly crucial during peak grid failure occurrences. This innovative approach significantly enhances the overall energy output and resilience of the house. The utilization of renewable resources minimizes carbon emissions, contributing to a cleaner environment. The system is meticulously engineered to fulfill the continuous energy demands of a residential house, thereby reducing reliance on conventional energy sources. Surplus energy generated by the integrated system can be seamlessly fed back into the grid, establishing a self-sustainable zero energy house that actively contributes to the broader energy ecosystem.

No. of Pages : 21 No. of Claims : 5

(54) Title of the invention : A NOVEL APPROACH TO DESIGNING ROUTING ALGORITHMS USING GRAPH THEORY

(51) International classification :H04L0045120000, G06K0009620000, H04Q0011000000, G06F0030200000, H04L0045000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Himanshoo Tiwari
 Address of Applicant :Assistant Professor/ B.Tech, Mangalmai Institute Of Engineering and Technology, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, 201310, India. -----

2)Dr. Indumathi R S
3)Dr.A.Thangam
4)Pinky Rajnath Prajapati
5)Dr.A.Maheswari
6)Dr.C.Jenita Nancy
7)Mr. Hemraj Sharma
8)Tephillah S
9)Ms. Nitu Tank
10)Dr.D.Balraj
11)Ms. Priya Swami
12)Ms. Seema Jain
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Himanshoo Tiwari
 Address of Applicant :Assistant Professor/ B.Tech, Mangalmai Institute Of Engineering and Technology, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, 201310, India. -----

2)Dr. Indumathi R S
 Address of Applicant :Associate professor, Department of Mathematics, Maharaja Institute of Technology Mysore, Belawadi, S.R.Patna Taluk, Mysore, Mandya, Karnataka -571477, India. -----

3)Dr.A.Thangam
 Address of Applicant :Department of Mathematics, Pondicherry University Community College, Lawspet, Pondicherry, India. -----
4)Pinky Rajnath Prajapati
 Address of Applicant :Assistant Professor, General Science and Humanities, Shah and Anchor Kutchii Engineering College, Mumbai, Maharashtra -400088, India. -----
5)Dr.A.Maheswari
 Address of Applicant :Assistant Professor, Department of Mathematics, PPG College of Arts and Science, Coimbatore, Tamilnadu, India. -----
6)Dr.C.Jenita Nancy
 Address of Applicant :Assistant Professor, Department of Mathematics, PPG College of Arts and Science, Coimbatore, Tamilnadu, India. -----
7)Mr. Hemraj Sharma
 Address of Applicant :Assistant Professor, Department of Computer Science, Wilfred's P.G College, Jaipur, Rajasthan, 302020, India. -----
8)Tephillah S
 Address of Applicant :AP/ECE, St.Joseph's Institute of Technology, Chennai ,600119, Tamilnadu, India. -----
9)Ms. Nitu Tank
 Address of Applicant :Assistant Professor, Department of Computer Science, Wilfred's P.G College, Jaipur, 302020, Rajasthan, India. -----
10)Dr.D.Balraj
 Address of Applicant :Assistant Professor Department of Mathematics Kongunadu College of Engineering and Technology Tiruchirappalli, -621 215, Tamilnadu, India. -----
11)Ms. Priya Swami
 Address of Applicant :Assistant Professor, Department of Computer Science, Wilfred's P.G College, Jaipur, Rajasthan,302020, India. -----
12)Ms. Seema Jain
 Address of Applicant :Assistant Professor, Department of Computer Science, Wilfred's P.G College, Jaipur, Rajasthan, 302020, India. -----

(57) Abstract :
 A NOVEL APPROACH TO DESIGNING ROUTING ALGORITHMS USING GRAPH THEORY A method for the development of the speed sensor is adapted to receive a packet and detect a speed of the IM connection and in response to the speed of the IM connection being above a threshold value, the speed sensor provides the packet to the optical path of the IM and in response to the relative speed being below the threshold value, the speed sensor provides the packet to the electrical path of the IM. It also benefits from a caching mechanism and detection of returning loops to provide effective forwarding while minimizing key consumption and achieving the desired utilization of network links. Simulation results are presented to demonstrate the validity and accuracy of the proposed solutions. Regular graphs are a type of graph that is highly structured and provides complete network protection. This work introduces the concept of the volume cycle as a new design factor in program planning. The SOM is an unsupervised learning method with two layers and has proven effective in several research areas, such as clustering. In the routing problem, we use the Clarke and Wright technique to determine routes. In the present work, we propose an improvement of the capacitated self-organizing map (CSOM) to optimize the location of depots and the Or-Opt algorithm to ameliorate the routes obtained by Clarke and Wright (CSOM&CW). FIG.1

No. of Pages : 15 No. of Claims : 1

(54) Title of the invention : HIGHLY EFFICIENT METHODS FOR THE SYNTHESIS OF BIOACTIVE PEPTIDES USING MICROWAVE-ASSISTED SOLID-PHASE CHEMISTRY

<p>(51) International classification :C07K0001040000, B01J0019120000, G01N0033543000, A61K0009480000, H05B0006800000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Sunil Verma Address of Applicant :Professor, Echelon Institute of Technology, Faridabad, Pin: 121101, Haryana, India. -----</p> <p>2)Dr. Shital Prasad</p> <p>3)Kiran Kumar Veerabattini</p> <p>4)Ranadheer Reddy Challa</p> <p>5)Bhaskarvallamkonda</p> <p>6)Dr. Aayushi Arya</p> <p>7)Mrs. Deepika Ayeti</p> <p>8)Dr. Anil Kumar Singh</p> <p>9)Dr. Gurmeet Singh Chhabra</p> <p>10)Mr. Vino Udappusamy</p> <p>11)Dr. Harikumar Pallathadka</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Sunil Verma Address of Applicant :Professor, Echelon Institute of Technology, Faridabad, Pin: 121101, Haryana, India. -----</p> <p>2)Dr. Shital Prasad Address of Applicant :Associate Professor, Echelon Institute of Technology, Faridabad, Pin: 121101, Haryana, India. -----</p> <p>3)Kiran Kumar Veerabattini Address of Applicant :Scientific officer- R&D Formulations, Propharmex India Pvt Ltd, 2-39, Padmashaali Street, Poodur Village, Kodimyalmandal, Jagtial District, Pin: 505501, Telangana, India. -----</p> <p>4)Ranadheer Reddy Challa Address of Applicant :Sr. Group Leader, Formulation and Development, Quotient Sciences, 3080 McCann Farm Dr, Garnet Valley, PA 19060, USA. -----</p> <p>5)Bhaskarvallamkonda Address of Applicant :Manager, Analytical Research and Development, Odin Pharmaceutical LLC, 300 Franklin Square Drive, Somerset, New Jersey -08817, USA. -----</p> <p>6)Dr. Aayushi Arya Address of Applicant :Assistant Professor, Woxsen University, Kamkole Village, Old Mumbai Highway, Greater Hyderabad, Pin: 502345, Telangana, India. -----</p> <p>7)Mrs. Deepika Ayeti Address of Applicant :Research Assistant, The Brilliant Research Foundation, Office no. 102, Pashan, Pune, Pin: 411021, Maharashtra, India. -----</p> <p>8)Dr. Anil Kumar Singh Address of Applicant :Associate Professor, College of Computing Science, Teerthanker Mahaveer University, Moradabad, Pin:244001, Utter Pradesh, India. -----</p> <p>9)Dr. Gurmeet Singh Chhabra Address of Applicant :Professor, Pharmaceutical Chemistry, Indore Institute of Pharmacy, Pithampur Road, Opposite Indian Institute of Management Rau, Indore, Pin: 453331, Madhya Pradesh, India. -----</p> <p>10)Mr. Vino Udappusamy Address of Applicant :Research Scholar (PhD), Department of Biochemistry, PSG College of Arts & Science, Coimbatore, Pin: 641 014, Tamilnadu, India. -----</p> <p>11)Dr. Harikumar Pallathadka Address of Applicant :Director and Professor, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140, Manipur, India. -----</p>
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(57) Abstract :

The present invention introduces highly efficient methods for synthesizing bioactive peptides utilizing microwave-assisted solid-phase chemistry. By strategically applying microwave irradiation during crucial steps such as coupling and deprotection, the invention significantly accelerates reaction rates, thereby reducing synthesis times and improving overall yields. With optimized reaction parameters, flexibility in amino acid selection, and compatibility with varied protecting groups, the disclosed methods offer a scalable, cost-effective, and versatile solution for peptide synthesis, with potential applications spanning pharmaceuticals, biotechnology, and diagnostics.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009275 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING AND REPORTING CLEANLINESS AND HEALTH STATUS OF PUBLIC TOILETS

(51) International classification :H04L0067120000, G06F0011200000, H02J0013000000, H01M0010480000, B62J0045400000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR. SHIVANI JOSHI

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

2)DR. RAJIV KUMAR

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

3)DR. PRAVEEN KUMAR RAI

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

4)VIKAS CHANDRA TRIPATHI

Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

(57) Abstract :

System and Method for Monitoring and Reporting Cleanliness and Health Status of Public Toilets Abstract The present disclosure relates to a system for monitoring and reporting the cleanliness and health status of public toilets. Said system integrates a network of sensors and IoT devices within each toilet, designed to measure various cleanliness parameters including levels of cleanliness, the presence of communicable diseases, and air quality. The gathered data is then processed by a central processing unit (CPU), which is also responsible for secure data transmission to external devices. Incorporating a global positioning system (GPS) module, the system can accurately determine the geographical location of each toilet. A user interface hardware module is included for displaying the status information of the toilets, enhancing user convenience and awareness. Additionally, a power management unit ensures efficient power supply and regulation to all components of the system, ensuring continuous and reliable operation.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009276 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : REAL-TIME MONITORING OF INDUSTRIAL CHEMICAL DETECTION USING 2D MATERIALS ASSISTED FIBER BRAGG GRATING SENSORS

(51) International classification :C12P0005020000, G02B0006020000, G01J0003260000, G01N0033520000, G01N0021170000

(86) International Application No :NA
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(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)AZHAR SHADAB
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

2)PURNENDU SHEKHAR PANDEY
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

3)MANAS KUMAR MISHRA
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

4)MAYANK SINGH
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

5)SHASHANK AWASTHI
 Address of Applicant :GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT , PLOT NO.2 , APJ ABDUL KALAM ROAD, KNOWLEDGE PARK 3, GREATER NOIDA, UTTAR PRADESH, INDIA, 201306 Greater Noida -----

(57) Abstract :
 Real-time monitoring of industrial chemical detection using 2D materials assisted Fiber Bragg grating sensors Abstract The present disclosure pertains to a system for real-time monitoring of industrial chemical detection, utilizing a Fiber Bragg grating (FBG) sensor coated with 2D materials to enhance sensitivity to specific chemicals. The system includes an optical signal processing unit, configured to interpret spectral changes. Said changes are then analysed by a data analysis module to identify and quantify the presence of specific chemicals accurately. Further, an alert unit is designed to notify operators in real-time upon the detection of said chemicals, facilitating immediate and appropriate response measures in industrial environments.

No. of Pages : 27 No. of Claims : 10

(54) Title of the invention : A DEVICE FOR GAIT TRAINING OF A USER

(51) International classification :A61B5/103, A61B5/11, A61H3/00, A63B22/02

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Sharda University
 Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)CHOUDHARY, Khushboo
 Address of Applicant :Student, Department of Physiotherapy, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

2)SAIWAL, Muskan
 Address of Applicant :Student, Department of Physiotherapy, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

3)VISHWAKARMA, Deeksha
 Address of Applicant :Student, Department of Physiotherapy, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

4)SHARMA, Vishal
 Address of Applicant :Assistant Professor, Department of Physiotherapy, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----

(57) Abstract :
 The present disclosure pertains to a device (100) for gait training of a user. The device (100) comprises a platform to provide space for the user to walk. The platform comprises a plurality of blocks (112) to accommodate one or more tactile sensory feedback members. The device (100) comprises at least four adjustable vertical posts (104) fixed to the platform. Further, the device (100) comprises a pair of horizontal bars (106) longitudinally mounted on the at least four adjustable vertical posts (104) to support the user while walking on the platform. Additionally, the device (100) comprises a plurality of visual feedback members (108). The plurality of visual feedback members (108) comprises one or more light emitting units (114) and a mirror (116). The one or more light emitting units (114) is configured at the plurality of blocks (112) to provide visual feedback for the gait training.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009324 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR IMPLEMENTING A WI-FI MODULE USING A FPGA

(51) International classification :H04W0084120000, G06F0115080000, G06F0021120000, G06F0030331000, G06F0030340000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University
Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)KAUR, Amanpreet
Address of Applicant :Chitkara University, Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)BHARDWAJ, Vaneeta
Address of Applicant :Chitkara University, Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

3)RAMKUMAR, K.R.
Address of Applicant :Chitkara University, Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

4)MITTAL, Sudesh
Address of Applicant :Chitkara University, Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

5)SINGH, Bhupendra
Address of Applicant :CAIR, DRDO, Kaggadasapura Main Rd, C V Raman Nagar, Bengaluru, Karnataka – 560093, India. Bengaluru -----

6)HASIJA, Taniya
Address of Applicant :Chitkara University, Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to a system 102 and method 400 for method 400 for implementing a Wireless Fidelity (Wi-Fi) module using a Field-Programmable Gate Array (FPGA). The method 400 includes compiling and executing 402 a design using a computer-aided environment, where the design is executed on a hardware platform comprising the FPGA and creating 404 a block design using a configuration of Intellectual Property (IP) cores, a configuration of a clock wizard, a configuration of a Wi-Fi, and a configuration of a soft processor within the computer-aided environment. Further, the method 400 includes providing 406 a system differential clock as an input to the block design for implementing the Wi-Fi module with the FPGA for wireless communication.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008724 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOLAR POWERED PORTABLE BLENDER

(51) International classification :A47J0043070000, C02F0001140000, H01L0031022400, H02J0007350000, H02J0007020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Saloni Bansal

Address of Applicant :Department of Electronics Communication Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura

(57) Abstract :

Abstract The present invention discloses a solar powered portable blender. The present invention comprises of blender blade (109), solar cell (104), Indicator light (102), bottle (106), Drinking Lid (105), Bottle Cap (107), Blade Cover (108), Power Button (103) and the Blending Base (101). In the present invention, the solar cell (104) is inscribed at the bottom of the blender blade unit and charge through sun light. The charging through sunlight will overcome the need of electricity.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008725 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HEALTH MANAGEMENT SYSTEM FOR BATTERY

<p>(51) International classification :G01R31/382, G01R31/396, G08B21/18, H01M10/42, H02J13/00, H02J7/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)GLA University, Mathura Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura - -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Yogendra Kumar Address of Applicant :Department of Electrical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- -----</p>
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(57) Abstract :
 ABSTRACT The present invention discloses a health management system for lithium-ion battery with cloud analytics and on-user platform. The present invention comprises of Microcontroller (2), Voltage Regulator (3), MCP STEP UP converter (4), 3.7 li-ion Battery (5), Current Sensing Resistor (6), WIFI Module (7), Cloud Platform (8), LCD Display (9), temperature (10), voltage (11), current (12) and power supply (13), temperature monitoring (14). The system (1) utilizes an ESP8266 microcontroller (2) to gather data on the battery's voltage (11), current (12), and temperature (10). An LDO voltage regulator (15) ensures stable power supply (13) for the microcontroller (2)0. The collected data is transmitted to a cloud platform (8) via Wi-Fi (7) for real-time visualization and analysis. The entire system runs on the 3.7V lithium-ion battery (5) itself.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008726 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC AIR CONDITIONING CUT OFF SYSTEM

(51) International classification :B60H0001000000, G08G0001000000, B60H0001320000, B62D0006000000, G06F0003048100

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GLA University, Mathura
 Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Vikas Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

2)Rahul Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

3)Sangeeta Rani
 Address of Applicant :Department of Computer Science and Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

(57) Abstract :

Abstract The present invention discloses an automatic air conditioning cut off system for vehicles. In the present invention the automatic air conditioning cut off system (100) comprises of microcontroller (103), at least two limit switch(s) (101), manual override switch (102) and an Ac control unit (104). In the present invention, the limit switch (101) detects open windows, completes the circuit, and information is sent to a microcontroller (103) that regulates the air conditioning in the vehicle. There is a manual switch (102) that can be used in an emergency.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008727 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMOTIVE WATER PLANTING SYSTEM

(51) International classification :A01G0031020000, A01G0027000000, G01N0033240000, A01G0009020000, A01G0027020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GLA University, Mathura
 Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Soni Kumari
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

2)Yash Agrawal
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

3)Dr. Kumar Abhishek
 Address of Applicant :Department of Mechanical and Aerospace Engineering, Institute of Infrastructure, Technology, Research and Management, Ahmedabad. Ahmedabad -----
4)Prachi Vishwakarma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

5)Kamal Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

(57) Abstract :
 AUTOMOTIVE WATER PLANTING SYSTEM Abstract The present invention discloses an automatic water planting system which can supply water automatically to the plant. The automatic water planting system (104) comprises of moisture sensor (100), water pump with pipe (101), microcontroller (102), connecting wires (103). In the present invention, the use of moisture sensor (100) is used to measure the moisture content in the soil. By using this moisture content data, microcontroller (102) processes this data and give command to the water pump (103) to supply water to the plant pot.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008728 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HYBRID TOILET SEAT

(51) International classification :A47K13/00,
A47K13/28
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2, Mathura-Delhi
Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Soni Kumari

Address of Applicant :Department of Mechanical Engineering,
GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O.
Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

2)Dr. Kumar Abhishek

Address of Applicant :Department of Mechanical and Aerospace
Engineering, Institute of Infrastructure, Technology, Research and
Management, Ahmedabad Ahmedabad ----- -----

3)Prof. Kamal Sharma

Address of Applicant :Department of Mechanical Engineering,
GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O.
Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

(57) Abstract :

HYBRID TOILET SEAT Abstract The present invention discloses an adjustable hybrid toilet seat. In the present invention, the hybrid toilet seat (1) comprises of sitting lid (2), closing lid (3), Smooth Rods (4) to support the seat, Ball Screw (5), Gear Lock Mechanics (6), and Exhaust Pipe (7). In the present invention, the hybrid toilet seat (1) is adjustable that can be used in common toilet for different age groups of users, the height of the toilet seat (1) is lifted or reduced with the help of rotation a lever (8) due to which the seat travels up or down along the ball screw (5).

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : VOICE TO TEXT BASED EMAIL GENERATION FRAMEWORK

(51) International classification :G10L0015260000, G06Q0010100000, G10L0015220000, H04M0003420000, G10L0015180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)PIYUSH YADAV
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

2)SEEMA VERMA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

3)SHOBHIT MISHRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

4)TUSHAR MALHOTRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

5)SAMEER VERMA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

6)SATYAM PATHAK
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :
 VOICE TO TEXT BASED EMAIL GENERATION FRAMEWORK Abstract The present disclosure pertains to a voice-to-text based email generation framework designed to streamline digital communication. Said framework includes a speech recognition module for converting spoken language into text, an email composition module operatively connected to the speech recognition module for formatting the converted text into an email structure, and an email sending unit integrated with the email composition module for dispatching the formatted email to designated recipients.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009120 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : VOICE DATA ANALYSIS FRAMEWORK FOR EMOTION DETECTION

(51) International classification :G10L0025630000, H04W0004020000, G10L0017260000, G06N0003000000, G06F0003010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)KRISHNA KANT SINGH
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
2)MADHUMITA MAHAPATRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
3)MIHIR MISHRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
4)MINTU GUPTA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
5)ISHAAN
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----
6)AKANSHA SAXENA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :
 VOICE DATA ANALYSIS FRAMEWORK FOR EMOTION DETECTION Abstract The present disclosure pertains to a voice data analysis system for emotion detection. The system includes an audio input module for receiving voice data, and a processing unit tasked with analyzing the received data. An emotion detection module, operatively connected to the processing unit, identifies emotional states from the analyzed voice data. A data storage unit is incorporated, configured to store both the analyzed voice data and the identified emotional states. Finally, an output module is provided to present said identified emotional states. Said system offers a solution for accurate emotion detection in voice data, useful in various applications.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009121 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMAGE PROCESSING PLATFORM FOR TEXTUAL AND SPEECH SYNTHESIS

(51) International classification :G10L0013080000, G10L0015220000, G10L0013000000, G10L0013020000, G10L0013033000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)MS. MEGHA KUMAR
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

2)SEEMA VERMA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

3)GAURAV CHADHA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

4)RUDRANSH SINGH MAHRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

5)DEVANSH KALIA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :
 IMAGE PROCESSING PLATFORM FOR TEXTUAL AND SPEECH SYNTHESIS Abstract The present disclosure relates to an image processing platform designed for textual and speech synthesis. Said platform includes a data reception module for receiving image data, a text extraction unit configured to extract textual content from the received image data, and a speech synthesis component. The speech synthesis component is operatively connected to the text extraction unit and is responsible for converting the extracted textual content into speech output. An output interface is included to deliver the synthesized speech to a user. Said platform is adept at processing various image formats and is designed to enhance the accuracy and efficiency of converting image-based text into audible speech, thereby catering to diverse application needs in the field of digital image processing and speech synthesis technology.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009122 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : REAL-TIME ATTENTION MONITORING SYSTEM FOR CLASSROOM USING DEEP LEARNING

(51) International classification :G06N0003080000, G06N0003040000, A61B0005145000, G06F0016260000, G06Q0010060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)KRISHNA KANT SINGH
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

2)PIYUSH YADAV
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

3)ANKIT GAMBHIR
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

4)SHUBHANKIT SUDHAKAR
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

5)HASAN ALI
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

6)RISHABH SHARMA
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

7)AJAY KUMAR
Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA --

(57) Abstract :
REAL-TIME ATTENTION MONITORING SYSTEM FOR CLASSROOM USING DEEP LEARNING Abstract The present disclosure pertains to a system (100) for real-time monitoring of attention within classroom environments is disclosed. Said system encompasses a strategically positioned sensing module (102) designed to capture visual data of participants, and a processing unit (104) equipped with an advanced deep learning model. The model analyses the obtained visual data to identify indicators of attention or the absence, thereby determining the participant's attention level. An output interface (106), functionally connected to the processing unit, is configured to display the determined attention levels.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009325 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ANIMAL REPULSING APPARATUS

(51) International classification :A61N0001360000, B60L0001000000, B05B0012120000, F41B0015040000, A61N0001050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chitkara University

Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SINGH, Anoop Kumar

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)SHARMA, Bhisham

Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

An apparatus (100) for protecting a roof of a vehicle (120) from animal intrusion includes a frame (102) mechanically coupled to the roof of the vehicle (120) and a plurality of sensors (104) disposed on the frame (102). Additionally, the apparatus (100) includes a shocker unit (106) electrically coupled to the frame (102) that is configured to generate electric shock upon detecting an event of one or more animals on the roof of the vehicle (120) or in proximity to the vehicle (120) and a control unit (108) operatively coupled to the shocker unit (106) and the plurality of sensors (104). In an event of detection of the animal on the roof of the vehicle (120), the control unit (108) actuates the shocker unit (106) to deliver an electric shock on the frame (102), deterring animals from jumping or walking on the vehicle (120).

No. of Pages : 14 No. of Claims : 8

(54) Title of the invention : DEEP LEARNING TECHNIQUES TO PREDICT THE PROS AND CONS OF SINGLE-GENDER CLASS

(51) International classification :G06N0003080000, G06N0003040000, G06K0009620000, A61B0005055000, G06N0020000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Gaurav Rao
 Address of Applicant :Associate Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

2)Dr. Neeraj Kumar
 Address of Applicant :Assistant Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

3)Prof. Bhola Khan
 Address of Applicant :Professor, Dept. of Regional Economics, MJPRU, Bareilly, India Bareilly -----

4)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

5)Prof. Anil Singh
 Address of Applicant :Professor, Dept. of Electronic and Instrumentation, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 Deep Learning techniques to predict the pros and cons of single-gender class is the proposed invention. The proposed invention focuses on understanding the mentality and logical creativity of students when they are not studying in a co-education environment. The invention focuses on analyzing the prediction of pros and cons of single-gender class using algorithms of Deep Learning.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : MACHINE LEARNING MODELS TO PREDICT THE INVOLVEMENT OF PARENTS IN MODERN EDUCATION

<p>(51) International classification :G06Q0050200000, G06N0020000000, G09B0019000000, H04W0004029000, G06N0020200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MJP ROHILKHAND UNIVERSITY Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Gaurav Rao Address of Applicant :Associate Professor, Dept. of Bed/MED, MJPRU, Bareilly, India Bareilly -----</p> <p>2)Dr. Neeraj Kumar Address of Applicant :Assistant Professor, Dept. of Bed/MED, MJPRU, Bareilly, India Bareilly -----</p> <p>3)Prof. Vinay Rishiwal Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>4)Prof. Anil Singh Address of Applicant :Professor, Dept. of Electronic and Instrumentation, MJPRU, Bareilly, India Bareilly ----- ---</p> <p>5)Prof. Bhola Khan Address of Applicant :Professor, Dept. of Regional Economics, MJPRU, Bareilly, India Bareilly -----</p> <p>6)Dr. Brijesh Kumar Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p>
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(57) Abstract :
Machine learning models to predict the involvement of parents in modern education is the proposed invention. The proposed invention focuses on studying the impact of the modern education has on educational aspects between parents and their wards. The invention focuses on analysing the involvement of parents in modern education using algorithms of machine learning.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : MACHINE LEARNING BASED MODEL TO STUDY ROLE OF PRINTED ENERGY STORAGE DEVICE FOR FLEXIBLE ELECTRONICS

(51) International classification :G06N0020000000, G06K0009620000, H01L0027120000, H04W0004029000, H01L0051000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Prof. Anil Singh
 Address of Applicant :Professor, Professor, Dept. of Electronic and Instrumentation, MJPRU, Bareilly, India Bareilly -----

2)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
3)Dr. Brajesh Kumar
 Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
4)Prof. Naveen Kumar
 Address of Applicant :Professor, Dept. of Applied Mathematics, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 Machine Learning based model to study role of printed energy storage device for flexible electronics is the proposed invention. The proposed invention focuses on studying the storage device for flexible electronics. The invention focuses on analyzing the parameters of role of printed energy for electronics using algorithms of Machine Learning.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009492 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MIND-BODY INTEGRATION SYSTEM AND METHODS

(51) International classification :A61B0005000000, A61B0005160000, A61M0021000000, G09B0019000000, A61B0005024000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Neha Vyas
 Address of Applicant :18, Shyam Vihar colony, station road, Chomu, Jaipur -----

2)Dr Ajeet Saharan
3)Dr Alisha Gracias
4)Dr Shashank Baranwal
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Neha Kashyap
 Address of Applicant :Maharishi Markandeshwar University, Mullan Jaipur -----

2)Dr Shantanu Sharma
 Address of Applicant :Nims University, Rajasthan, Jaipur Jaipur --

3)Dr Manoj Mathur
 Address of Applicant :Nims University, Rajasthan, Jaipur Jaipur --

4)Dr Sonam Verma
 Address of Applicant :Nims University, Rajasthan, Jaipur Jaipur --

5)Dr Jyoti Sharma
 Address of Applicant :Galgotias University, Sector 17A, Greater Noida, Uttar Pradesh, 203201 Jaipur -----

6)Dr Pratipan Ramasamy
 Address of Applicant :Director of operation and Strategy, Padmanaban's Movementology Academy, LLP Jaipur -----

(57) Abstract :

The present invention relates to systems and methods for managing brain and body functions, sensory perception, and overall health. Specifically, it provides techniques for integrating mind and body through sensory substitution, sensory enhancement, and motor control enhancement. The program aims to improve mental and physical health, enhance performance, and promote overall well-being. Sensory Substitution and Enhancement is Leveraging technology, we substitute and enhance sensory modalities. By training the brain to process alternative sensory inputs effectively, we heighten overall perception and awareness. Neuroacoustic sound generation plays a pivotal role in eliciting specific brainwave frequencies associated with heightened sensory awareness. In Motor Control Enhancement Our focus lies in improving motor skills, coordination, and movement. Sensory feedback, coupled with targeted motor training, optimizes physical performance. The Experiential Training and Biofeedback Participants engage in guided exercises linking sensory cues with emotional states or physical responses. Biofeedback reinforces positive experiences, creating a feedback loop for continuous improvement and Applications Across Domains Health and Wellness: Stress management, anxiety reduction, and mood enhancement. Performance Optimization: Athletes, artists, and professionals benefit from heightened sensory awareness, focus, and physical coordination. Intimacy Enhancement: Fostering emotional connection and sensuality.

No. of Pages : 10 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008729 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC DUST CLEANING SYSTEM

(51) International classification :B60S0001480000, B60S0001520000, B60S0001500000, A47L0009280000, B60R0011040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GLA University, Mathura
 Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Vikas Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

2)Rahul Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

3)Anirudh Singh
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

4)Taman Garg
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

5)Kush Jindal
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura ----- --

(57) Abstract :

Abstract The present invention discloses an automatic dust cleaning system that assists in wiping the windshield of the vehicle. The present invention comprises of microcontroller (2), at least two motors (3), optical dust sensor (4), capacitor (5), washer (6). In the present invention, the optical dust sensor (4) helps to identify the dust over the windscreen and then further transfer the data to the microcontroller (2) the controller starts the washer (6), fluid is dispersed over the windscreen, and the motors (3) are turned on to wipe the screen.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008730 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC WINDOW CLEANING SYSTEM

(51) International classification :A47L0001020000, A47L0001060000, A47L0011380000, B08B0009093000, A47L0001080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GLA University, Mathura
 Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Yash Agrawal
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

2)Dr. Soni Kumari
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

3)Dr. Kumar Abhishek
 Address of Applicant :Department of Mechanical and Aerospace Engineering, Institute of Infrastructure, Technology, Research and Management, Ahmedabad. Ahmedabad -----

4)Prof. Kamal Sharma
 Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

(57) Abstract :
 AUTOMATIC WINDOW CLEANING SYSTEM Abstract The present invention discloses a window cleaning system that automatically cleans the windows at offices, homes, flats, factories, etc. in regular interval of time. The present the automatic window cleaning system (106) comprises of motor (100), wipers (101), microcontroller (102), water pump (103), atleast two nozzles (104) and a H-Bridge circuit (105). In the present invention, the process of cleaning is performed for 1-2 minutes and this help us to clean our windows without human efforts. After some days (2-3 days) this same process will be repeated.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008731 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : POWER GENERATION SYSTEM

(51) International classification :F03D0009250000, F03D0013200000, G01W0001000000, F03G0007080000, F03D0009110000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ravindra Pratap Singh

Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

2)Yash Agrawal

Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

3)Anuj Sharma

Address of Applicant :Department of Mechanical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

(57) Abstract :

Abstract The present invention discloses a power generation system by using air turbulence generated by moving vehicle. It comprises of blade (100), pole (101), generator (102), link rod (103), battery (104), inverter (105), impeller shaft (106) and bearing (107). The present invention uses the wind mill technique to generates the air turbulence by the motion of moving vehicles and generates the electrical energy.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008732 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOLAR POWERED HAIR STRAIGHTENER

(51) International classification :A45D0002000000, H02J0007350000, A45D0001040000, F21S0009030000, H02J0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GLA University, Mathura
Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Saloni Bansal
Address of Applicant :Department of Electronics Communication Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura

(57) Abstract :

Abstract The present invention discloses a solar powered cordless hair straightener. In the present invention, the solar powered cordless hair straightener (100) comprises of On /Off Button (101), Clamp and Body (102), Ceramic plates (103), Temperature Control Display (104), Rechargeable Battery (105), Solar Panel (106). In the present invention, the cord-based hair straightener which is run through plug in electricity is replaced by solar powered cordless hair straightener. solar cell is charge through sunlight incident on it. Solar cell converts sun energy into electrical energy and provide power to the rechargeable battery through their electrical connection. After turning on the power button (101), the battery (105) provides power to the heating elements to heat up of maximum temperature and break down the bonds that are holding your hair in its natural shape.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008733 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IOT-BASED GARDEN PROTECTION SYSTEM

(51) International classification :A01G0007040000, A01G0025160000, A01G0009240000, F21W0131109000, H04W0004380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)GLA University, Mathura

Address of Applicant :17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406 Mathura -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Yogendra Kumar

Address of Applicant :Department of Electrical Engineering, GLA University, 17km Stone, NH-2, Mathura-Delhi Road P.O. Chaumuhan, Mathura, Uttar Pradesh 281406. Mathura -----

(57) Abstract :

IOT-BASED GARDEN PROTECTION SYSTEM ABSTRACT The present invention discloses a garden protection system that leverages IoT technology to revolutionize plant cultivation. The system (1) comprises of Microcontroller (2), Voltage Regulator (3), power supply (4), solar panel (5), battery (6), WIFI Module (7), Cloud Platform (8), LCD Display (9), solenoid valves (10), sensors (11), LED (12) water pump (13), garden/ plant care (14), rectifier (15), glow light (16) and buzzer (17). In the present invention, by strategically deploying sensors (11), the system (1) gain real-time insights into critical aspects like soil moisture, harvest readiness, pest control, and light levels. This unprecedented data empowers us to remotely optimize plant care, maximizing efficiency and yield. The system (1) promises to usher in a new era of intelligent gardening, where technology and nature seamlessly collaborate to nurture vibrant, flourishing gardens.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008739 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR JOB DESCRIPTION PARSING AND ANALYSIS

(51) International classification :G06N0003080000, G06F0040295000, G06N0003040000, G06Q0010100000, G06F0016250000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)AVUA INTERNATIONAL PRIVATE LIMITED
 Address of Applicant :E 272 Phase, 8 A, 2nd Floor, Sector 75, Sahibzada Ajit Singh Nagar, Punjab Mohali -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)KUMAR, Bharath
 Address of Applicant :71 Gollahalli, JP Nagar 9th Phase, Anjanapura Banglore South, Karnataka - 560062 Banglore South - -----
2)CHOUDHARY, Adit
 Address of Applicant :House No. 866 / Sector - 5, Urban Estate, Kurukshetra - 136118 , Haryana Kurukshetra -----
3)SHEEL, Manan
 Address of Applicant :1548/9, New Colony, Near ICS Coaching Center, Sonipat, Haryana, India. Pin code - 131001. Sonipat -----

4)MANDLOI, Mohit
 Address of Applicant :H-4/4, JSW Township, Shankar Hill Town, Toranagallu, Bellary, Karnataka - 583123 Bellary -----

5)PAWAR, Sathwik
 Address of Applicant :236-4, Shivathmika, Opp. Shri Durgaparameshwari Temple, Hiriyangadi, Karkala, Udupi, Udupi -----

(57) Abstract :
 The present disclosure introduces a system (102) and method (300) for job description parsing and analysis through a seamless integration of advanced technologies. Leveraging web scraping techniques, the system (102) collects diverse job descriptions from various sources, encompassing industries such as IT, Finance, Pharma, and Energy. Employing Named Entity Recognition (NER) tools, like Tecoholic NER, ensures precise identification and categorization of essential segments within job descriptions. The system consolidates annotated data into a structured JSON file, streamlining access for subsequent deep learning operations. Further enhancements involve annotation trimming for data cleanliness and format conversion using SpaCy, and multi-level training and testing refines a SpaCy RoBERTa NER model, enabling proficient recognition and extraction of specific entities across industries and languages. Rigorous testing validates efficacy of the model, positioning this system as an advanced tool for automating job description analysis, offering invaluable insights for recruitment processes and industry trend analysis.

No. of Pages : 37 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411008741 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A NOVEL APPROACH TO LIP READING: LIPNET

(51) International classification :G06N0003040000, G06N0003080000, G10L0015160000, G10L0015060000, G10L0015250000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr Vikas Kamra
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida -----
2)Yash Deo
3)Dhruv Kalra
4)Kritika Singh
5)Shubham Kulshrestha
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr Vikas Kamra
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida -----
2)Yash Deo
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----
3)Dhruv Kalra
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----
4)Kritika Singh
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----
5)Shubham Kulshrestha
 Address of Applicant :Department of Computer Science & Engineering, Amity School of Engineering & Technology, Amity University Uttar Pradesh, Noida Noida -----

(57) Abstract :

In response to the pressing need for accurate speech recognition in challenging scenarios, an advanced lip-reading model is developed using deep learning techniques. Recognizing spoken words solely through visual information becomes a formidable task, especially for beginners, due to inherent challenges such as ambiguity at the word level and difficulty distinguishing short sentences without contextual cues. This prompted the development of a sophisticated lip-reading system, wherein a comprehensive methodology involves acquiring, preprocessing, and integrating a large dataset of video and audio recordings. Leveraging deep learning models like Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs), the system is trained to decipher the intricate relationship between visual and auditory cues. Through the integration of saliency maps and Connectionist Temporal Classification (CTC), the model enhances interpretability and speech recognition effectiveness. This innovative approach marks a significant advancement in automated lip reading, promising improved accuracy, and real-world applicability, particularly in aiding individuals with hearing impairments and addressing challenges in noisy environments.

No. of Pages : 16 No. of Claims : 6

(54) Title of the invention : BIOCOMPATIBLE NANOMATERIALS FOR PULP REGENERATION

(51) International classification :A61K47/34, A61K9/22, A61L27/54, B82Y30/00, B82Y40/00, B82Y5/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Gaurav Jain
 Address of Applicant :Associate Professor, Department of Conservative Dentistry and Endodontics, Saraswati Dental College & Hospital, 233, Tiwari Ganj, Ayodhya Road, Lucknow - 226028, Uttar Pradesh, India Lucknow -----

2)Dr. Pradyumna Misra
3)Dr. Manoj Hans
4)Dr. Lalit C. Boruah
5)Dr. Shronika
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Gaurav Jain
 Address of Applicant :Associate Professor, Department of Conservative Dentistry and Endodontics, Saraswati Dental College & Hospital, 233, Tiwari Ganj, Ayodhya Road, Lucknow - 226028, Uttar Pradesh, India Lucknow -----

2)Dr. Pradyumna Misra
 Address of Applicant :Professor and Head of Department, Department of Conservative Dentistry and Endodontics, Saraswati Dental College & Hospital, 233, Tiwari Ganj, Ayodhya Road, Lucknow - 226028, Uttar Pradesh, India Lucknow -----

3)Dr. Manoj Hans
 Address of Applicant :Professor and Head of Department, Department of Conservative Dentistry and Endodontics, Institute of Dental Sciences, Bareilly – 243006, Uttar Pradesh, India Bareilly -----

4)Dr. Lalit C. Boruah
 Address of Applicant :Associate Professor, Department of Conservative Dentistry and Endodontics, Government Dental College, Dibrugarh – 786002, Assam, India Dibrugarh -----

5)Dr. Shronika
 Address of Applicant :Junior Resident, Department of Conservative Dentistry and Endodontics, Saraswati Dental College & Hospital, 233, Tiwari Ganj, Ayodhya Road, Lucknow – 226028, Uttar Pradesh, India Lucknow -----

(57) Abstract :
 The present invention relates to biocompatible nanomaterials designed for dental pulp regeneration. In the field of dentistry and endodontics, this invention offers novel nanomaterials and their application in stimulating dental pulp tissue regeneration, enhancing dental pulp healing, and improving endodontic procedures. The biocompatible nanomaterials are characterized by their exceptional biocompatibility, ease of application, and ability to efficiently promote pulp tissue regeneration. This innovation represents a significant advancement in addressing the limitations of current dental pulp regeneration techniques.

No. of Pages : 7 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009123 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEEP LEARNING DRIVEN PLANT PULSE ANALYZER

(51) International classification :G06N0003080000, G06N0003040000, G06T0007000000, A61B0005000000, G06F0040300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DELHI TECHNICAL CAMPUS
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)NEHA JAIN
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

2)KIMMI VERMA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

3)AARAT BATRA
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

4)RITESH KUMAR
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

5)ADITYA CHOUDHARY
 Address of Applicant :28/1, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH, GREATER NOIDA, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, 201306 GREATER NOIDA -----

(57) Abstract :
 DEEP LEARNING DRIVEN PLANT PULSE ANALYZER Abstract The present disclosure pertains to a plant pulse analyser system designed for advanced monitoring and analysis of plant health. Said system includes a sensor module for detecting pulse signals from plants, a data digitization unit that collects and digitizes these signals, and a data storage device for storing the digitized data. Key to said system is a deep learning processing module, which is connected to the data storage device and utilizes deep learning algorithms to analyze the stored digitized pulse signals. An output interface, linked to the deep learning processing module, displays the analysis results, providing insights into plant health and facilitating informed agricultural decision-making.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009125 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR PCOS DETECTION AND PREDICTION

(51) International classification :A61B0008080000, G16H0050200000, G16H0010600000, G16H0050300000, A61B0008000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Harsh khatter

Address of Applicant :54, Narayan Sadan, Anandi Pura, Gurudwara Road, Modinagar -----

2)Mr. Pawan Kumar Pal

3)Pooja Kumari

4)Aditi Singh

5)Kirti Jayant

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Pawan Kumar Pal

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

2)Pooja Kumari

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

3)Aditi Singh

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

4)Kirti Jayant

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

5)Dr. Harsh Khatter

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 GHAZIABAD -----

(57) Abstract :

Polycystic Ovary Syndrome (PCOS) is a common hormonal disorder affecting women worldwide, characterized by a myriad of symptoms and potential health complications. Early and accurate diagnosis of PCOS is crucial for effective management and prevention of associated health risks. In this era of technological advancement, machine learning offers a transformative approach to PCOS detection. This invention presents an innovative PCOS detection model using machine learning techniques. The model leverages a diverse set of patient data, including medical history, clinical measurements, and possibly ultrasound images, to enable early and non-invasive diagnosis. The details are shown in figures of the present enclosure.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009126 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR TRAFFIC SIGN RECOGNITION USING CNN

(51) International classification :G06K0009620000, G06N0003040000, G06N0003080000, G06T0007730000, G06F0040300000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Harsh khatter

Address of Applicant :54, Narayan Sadan, Anandi Pura, Gurudwara Road, Modinagar -----

2)Mr. Pawan Kumar Pal

3)Asish Kumar

4)Prashant Gupta

5)Anubhav Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Pawan Kumar Pal

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

2)Asish Kumar

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

3)Prashant Gupta

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

4)Anubhav Kumar

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 -----

5)Dr. Harsh Khatter

Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 Ghaziabad -----

(57) Abstract :

This invention, Traffic sign recognition, plays a critical role in enhancing road safety and supporting the development of autonomous vehicles. This research presents a novel traffic sign recognition system leveraging Convolutional Neural Networks (CNNs) and real-time sensor data fusion. The primary objective is to improve the accuracy, robustness, and real-time performance of traffic sign detection and interpretation under varying environmental conditions. The present invention involves the collection of a diverse dataset comprising thousands of traffic sign images, encompassing various sign types, lighting conditions, and sign orientations. We employ a state-of-the-art CNN architecture for feature extraction and classification, optimizing model hyper parameters to minimize overfitting. The details are shown in figures of the present enclosure.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009133 A

(19) INDIA

(22) Date of filing of Application :11/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : THE PROCESS OF ELECTRONIC COOLING FABRICS FOR IMPLEMENTATION IN PORTABLE DEVICES

<p>(51) International classification :H05K0007200000, G06F0001200000, H01M0010625000, H01M0010613000, H01L0023473000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Siddik Hussain Address of Applicant :Department of Aerospace Engineering, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>2)Dr. Jyoti Rajput 3)Dr. Jeeban Prasad Gewali 4)Dr. Amar Srivastava 5)Dr. Mukesh Kumar 6)Dr.S.Suresh 7)Dr. Sujata Kundan 8)Jobanpreet Singh 9)Dr. S. Ravichandran Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Siddik Hussain Address of Applicant :Department of Aerospace Engineering, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>2)Dr. Jyoti Rajput Address of Applicant :Associate Professor in Physics, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>3)Dr. Jeeban Prasad Gewali Address of Applicant :Assistant Professor in Physics, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>4)Dr. Amar Srivastava Address of Applicant :Assistant Professor in Physics, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>5)Dr. Mukesh Kumar Address of Applicant :Professor in Physics, School of Mechanical Engineering, Lovely Professional University, Jalandhar- Delhi GT Road, Phagwara -----</p> <p>6)Dr.S.Suresh Address of Applicant :Department of Chemistry ACE Engineering College, Ghatkesar, Telangana -----</p> <p>7)Dr. Sujata Kundan Address of Applicant :Assistant Professor (Inorganic Chemistry), Department of Chemistry and Chemical Sciences, Central University of Jammu, Jammu -----</p> <p>8)Jobanpreet Singh Address of Applicant :Department of Aerospace Engineering, School of Mechanical Engineering, Lovely Professional University, Jalandhar - Delhi GT Road, Phagwara -----</p> <p>9)Dr. S. Ravichandran Address of Applicant :Professor in Chemistry, School of Mechanical Engineering, Lovely Professional University, Jalandhar - Delhi GT Road, Phagwara -----</p>
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(57) Abstract :
Thermal management systems have advanced quickly due to increased computing power, particularly in consumer electronics. For example, liquid cooling technology used to be restricted to high-capacity computer systems, but that is no longer the case. This kind of heat management systems have recently been included in some cell phones. The market for materials for smartphones and tablets has grown significantly during the last ten years, according to a number of surveys. It is presently anticipated that, instead of secondary heat sinks, this sector will primarily rely on innovative materials for cooling solutions. Over the last few years, chip-cooling systems have changed in tandem with these market developments to handle the rise in heat transfer in electronic goods. These data demonstrate that cooling or heat dissipation is the major force in the electronics sector.

No. of Pages : 12 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009065 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : EFFECT OF IBA CONCENTRATIONS ON ROOTING PERFORMANCE OF GRAPES (VITIS VINIFERA L.) ROOTSTOCK CUTTINGS.

(51) International classification :A61K0036870000, A01H0005080000, A01G0017020000, A01H0004000000, B42D0025240000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gagan Mehta

Address of Applicant :sec- 9/11 -----

2)Jashanpreet Kaur

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Jashanpreet Kaur

Address of Applicant :Department of Horticulture , CCS HAU Hisar hisar -----

2)Dr, Anil Kumar Godara

Address of Applicant :Retd. Prof. And Head, Department of Horticulture, CCS HAU, Hisar Hisar -----

3)Gagan Mehta

Address of Applicant :Department of Horticulture , Maharana Pratap Horticultural University, Karnal Hisar -----

(57) Abstract :

Abstract The present study entitled, Effect of IBA concentrations on rooting performance of Grapes (Vitis vinifera L.) rootstock cuttings.experiment was carried out on grape rootstock (Dogridg) and the effect of different IBA concentration viz. 1500 ppm, 3000 ppm, 4500 ppm, 6000 ppm and Control was observed in rootstock cuttings at Chaudhary Charan Singh Haryana Agricultural University, Hisar during the year 2019-2020. The experiment was laid out in Completely randomized design with four replications. Observations were recorded on rooting. The results showed that IBA treatments significantly affected almost all the parameters of the rooting. The maximum rooting percentage (75.50%), number of roots per cutting (11.94), maximum length of root (289.08 mm), thickness of root (1.40 mm), fresh weight of root (6.82 g) and dry weight of root found maximum in cuttings treated with 3000 ppm IBA.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009068 A

(19) INDIA

(22) Date of filing of Application :10/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INFLUENCE OF DIFFERENT DOSAGE OF IBA ON GROWTH OF GRAPES (VITIS VINIFERA L.) ROOTSTOCK CUTTINGS.

(51) International classification :A61K0036870000, A01G0017020000, A61K0038000000, B42D0025240000, A01G0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gagan Mehta

Address of Applicant :sec- 9/11 -----

2)Jashanpreet Kaur

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Jashanpreet Kaur

Address of Applicant :Department of Horticulture, CCS HAU, Hisar Hisar -----

2)Dr Anil Kumar Godara

Address of Applicant :Retd, Prof. and Head Department of Horticulture, CCS HAU, Hisar Hisar -----

3)Gagan Mehta

Address of Applicant :Department Of Horticulture, Maharana Pratap Horticultural University, Karnal Hisar -----

(57) Abstract :

Abstract The present study entitled, Influence of different dosage of IBA on growth of Grapes (Vitis vinifera L.) rootstock cuttings. experiment was carried out on grape rootstock (Dogridg) and the effect of different IBA concentration viz. 1500 ppm, 3000 ppm, 4500 ppm, 6000 ppm and Control was observed in rootstock cuttings at Chaudhary Charan Singh Haryana Agricultural University, Hisar during the year 2019-2020. The experiment was laid out in Completely randomized design with four replications. Observations were recorded on growth parameters. The results showed that the maximum percent success (77.06%), number of sprouts (2.52), number of shoots (2.02), intermodal length (1.57 cm), number of leaves per cutting (15.82), shoot length 40, 80 and 120 DAP (6.53 cm, 8.47 cm and 13.30 cm respectively) was observed in cuttings treated with 3000 ppm IBA.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009944 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A FACE MATCH METHOD FOR IDENTIFICATION AND COMMUNICATION OF CRIMINAL, DUMB, DEAF, MISSING AS WELL AS WANTED PERSON AND ITS APPLICATION THEREOF

(51) International classification :G10L0017000000, H04L0061450000, G06Q0020380000, G06Q0010100000, H04M0003420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DEEPAK GUPTA

Address of Applicant :35 DARU BHONDELA BADA BAZAR GUDRI JHANSI -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DEEPAK GUPTA

Address of Applicant :35 DARU BHONDELA BADA BAZAR GUDRI JHANSI -----

2)DHRUV GUPTA

Address of Applicant :35, DARU BHONDELA BADA BAZAR, JHANSI, U.P, INDIA-284002 jhansi -----

3)ABHISHEK GUPTA

Address of Applicant :311 1A NEW 1244, JHOKAN BAGH CIVIL LINES, JHANSI (U.P) - 284001 jhansi -----

(57) Abstract :

Abstract A face match method for identification and communication of criminal, dumb, deaf, missing as well as wanted person and its application thereof. A face match method for identification and communication of criminal/wanted, dumb, deaf, missing as well as unknown person comprises uploading information about criminals/wanted persons or missing person, including personal and identification details, face match photos, and options for a reward message by the registered user as well as unregistered user and the registered users to search for individuals using face match photos, facilitating the identification process and enabling communication with family members or relevant contacts. Further the instant invention; the user can have an Android application as well as desktop software using face match system for the identification and communication of criminals, dumb, deaf persons, missing person as well as unknown person.

No. of Pages : 27 No. of Claims : 7

(54) Title of the invention : A STUDY TO ANALYZE THE NEGATIVE IMPACTS OF BULLYING BY CLASSMATES ON THE MENTAL HEALTH OF STUDENTS

(51) International classification :C12N0015100000, A23L0033135000, G06Q0050200000, G16H0010200000, H01L0051520000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA. Bareilly -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. Gaurav Rao
 Address of Applicant :Associate Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

2)Dr. Neeraj Kumar
 Address of Applicant :Assistant Professor, Dept. of Bed/MEd, MJPRU, Bareilly, India Bareilly -----

3)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

4)Prof. Bhola Khan
 Address of Applicant :Professor, Dept. of Regional Economics, MJPRU, Bareilly, India Bareilly -----

5)Prof. Anil Singh
 Address of Applicant :Professor, Dept. of Electronic and Instrumentation, MJPRU, Bareilly, India Bareilly -----

6)Dr. Brijesh Kumar
 Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 A study to analyze the negative impacts of bullying by classmates on the mental health of students is the proposed invention. The proposed invention focuses on studying the mental health of students when they are bullied by their fellow mates. The invention focuses on analyzing the negative impact of bullying through systematic approach.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009506 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HERB INFUSED HONEY

(51) International classification :A61K0036906800, A61K0035644000, A61K0036540000, A23L0021250000, A61K0036610000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shailja Kumari

Address of Applicant :Indian Carrer Point University
Himachal Pardesh -----

2)Aishwarya Sharma

3)S. Prasanth Narayanan

4)Sunil Kumar

5)Arti Jamwal Sharma

6)Shreya Jamwal

7)Carrer Point University

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shailja Kumari

Address of Applicant :Indian Carrer Point University Himachal
Pardesh -----

2)Aishwarya Sharma

Address of Applicant :Indian Carrer Point University Himachal
Pardesh -----

3)S. Prasanth Narayanan

Address of Applicant :Advanced Centre of Environmental Studies
and Sustainable Development, Mahatma Gandhi University
Kerala -----

4)Sunil Kumar

Address of Applicant :Central University of Himachal Pradesh
Himachal Pardesh -----

5)Arti Jamwal Sharma

Address of Applicant :Career Point University Himachal Pardesh -

6)Shreya Jamwal

Address of Applicant :VPO Gumma, District Mandi, H.P
Himachal Pardesh -----

7)Carrer Point University

Address of Applicant :Career Point University, Hamirpur, H.P.-
176041 Himachal Pardesh -----

(57) Abstract :

The invention presents a revolutionary Herb Infused Honey, a novel remedy addressing common challenges in herbal preparation. The honey, sourced locally, is blended with Cinnamon, Clove, Black Pepper, and Dried Ginger in specific concentrations for standardized multi-herb infusion. The meticulous 30-day infusion period ensures optimal extraction of flavors and medicinal compounds. Herb Infused Honey stands out with its versatile consumption, standardized herbal concentrations, and eco-friendly packaging. Positive consumer testimonials indicate its convenience, flavor, and health benefits. The study suggests potential for further innovation, aligning with sustainability and consumer education trends, making Herb Infused Honey a dynamic and effective solution in the evolving herbal product landscape.

No. of Pages : 17 No. of Claims : 9

(54) Title of the invention : COMPUTATIONAL FRAMEWORK FOR PREDICTIVE MODELING OF MOLECULAR INTERACTIONS USING ARTIFICIAL INTELLIGENCE

<p>(51) International classification :G06N0020000000, G16C0020700000, G16B0020000000, G16B0005000000, G16B0050000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Shafqat Alauddin Address of Applicant :Professor, Department of Chemistry, Shibli National College, Azamgarh-276001,Uttar Pradesh, India ----- 2)Dr. Kavita Khatana 3)Mr.Balaji M 4)Ravi Kishore Veluri 5)Dr. Chinmaya Guru 6)Dr.V.Sabari 7)Dolly Jinu R 8)Dr. Sajith. S 9)Dr. Manjushree Nayak Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Shafqat Alauddin Address of Applicant :Professor, Department of Chemistry, Shibli National College, Azamgarh-276001,Uttar Pradesh, India ----- 2)Dr. Kavita Khatana Address of Applicant :Postdoc, PhD, Chemical Engineering Department , Shiv Nadar Institution of Eminence Deemed to be University, Greater Noida, Uttar Pradesh, India ----- 3)Mr.Balaji M Address of Applicant :Assistant Professor, Department of AI & DS, Vel Tech High Tech Dr Rangarajan and Dr Sakunthala Engineering College, TamilNadu, India --- 4)Ravi Kishore Veluri Address of Applicant :Department of CSE, Associate Professor, Aditya Engineering College (A), Surampalem, Andhra Pradesh, India. ----- 5)Dr. Chinmaya Guru Address of Applicant :Principal, Pragati Group of Institution, Bhawanipatna, Kalahandi, Odisha 766001, India ----- 6)Dr.V.Sabari Address of Applicant :Assistant Professor, Research Coordinator, Marudhar Kesari Jain College for Women, Vaniyambadi, Thirupattur District, Tamilnadu, India ---- 7)Dolly Jinu R Address of Applicant :Assistant Professor, Department of CSE, St.Joseph's College of Engineering, OMR, Chennai-600119, Tamilandu, India. ----- 8)Dr. Sajith. S Address of Applicant :Associate Professor of Chemistry,Government Polytechnic College, Attingal, Thiruvananthapuram, Kerala- 695101, India ----- 9)Dr. Manjushree Nayak Address of Applicant :Associate Professor, Department of Computer Science and Engineering, NIST Institute of Science and Technology(Autonomous),Berhampur, Odisha-761008,India -----</p>
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(57) Abstract :
This abstract introduces a computational framework revolutionizing molecular interaction prediction by integrating artificial intelligence (AI) with computational techniques. The framework offers versatility for diverse molecular systems and user-friendly interfaces. AI algorithms, including machine learning and deep learning, drive predictive models validated iteratively with experimental data. The method involves data input, preprocessing, model generation, validation, and simulation, with models refined based on validation and new data. The invention also includes a computer-readable storage medium storing method instructions and a user interface featuring input forms, visualization tools, and simulation controls. Additionally, an application programming interface (API) facilitates framework integration into existing workflows. This breakthrough provides scientists with unprecedented accuracy and efficiency in understanding molecular behavior, with vast applications across fields such as drug discovery and environmental analysis. Through the fusion of AI and computational science, this framework propels scientific exploration into a new era, unlocking profound insights into the fundamental processes governing life at the molecular level.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009522 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PAPER BASED FLEXIBLE PACKAGING POUCH WITH COMBINATION OF COLD AND HOT GLUE

(51) International classification :B65D0075000000, A61F0013560000, B32B0027320000, A61F0013511000, B32B0027360000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)AEROPLAST PACKAGING SOLUTION PRIVATE LIMITED

Address of Applicant :A-10, Mangol Puri Industrial Area, Phase – II, North-West Delhi - 110083 Delhi -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Abhay Goyal

Address of Applicant :C2 /185, West Enclave Pitampura Delhi-10034 Delhi -----

(57) Abstract :

The present invention relates to a paper based flexible packaging pouch for packaging, comprising a front sheet (1); a rear sheet (2); wherein the front sheet (1) and the rear sheet (2) adhere along elongated sides for defining internal packaging area (5); and a gusset (3) joining together a bottom side of the front sheet (1) and the rear sheet (2) that allows expansion of the internal packaging area (5); wherein an upper side of one of the sheets includes atleast two parallelly running hotmelt glued strips (4a, 4b); wherein the glued strips (4a, 4b) being further covered by a release paper tap such that severing the release paper tap enables adhesion of the upper side of the front sheet (1) and the rear sheet (2) via the parallel running glued strips (4a, 4b) as a duplexing arrangement.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : A METHOD FOR PREPARING A UNI-SEXUAL AS WELL AS BI-SEXUAL LURE-BASED STICK TRAP AND ITS COMPOSITION THEREOF

(51) International classification :D21H0021160000, A61L0009040000, D21H0011000000, B31F0001280000, B42D0001100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Barkat Hussain
 Address of Applicant :Pherobank technologies (OPC) Pvt. Ltd C/o Shahoo Sachan, H.No: 80, Anantnag, J&K, 192231 Anantnag ----- --

2)Rayees Ahmad Bhat
3)Ejaz Ahmad Kundoo
4)Muddu Manisha
5)Muthanna Nandurka
6)Samala Jaya Prakash
7)Gangireddy Pavan Kumar Reddy
8)Nuzhat Akhter
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Barkat Hussain
 Address of Applicant :Pherobank technologies (OPC) Pvt. Ltd C/o Shahoo Sachan, H.No: 80, Anantnag, J&K, 192231 Anantnag ----- --

2)Rayees Ahmad Bhat
 Address of Applicant :Tarigam, Kulgam, J&K, India, 192231 Kulgam ----

3)Ejaz Ahmad Kundoo
 Address of Applicant :Anchar, Soura, Srinagar, J&K, India, 19001 Srinagar -----
4)Muddu Manisha
 Address of Applicant :H. No. 4-1-110/2/302, Sai Krupa, 3rd Floor, Bhavafli. Nagar, Street No 1, Nacharam, Uppal, Kv Rangareddy, Telangana, India, 500076 Rangareddy -----
5)Muthanna Nandurka
 Address of Applicant :4-156, Nagasamudram, Male/ Indian Dandepattt, Mancheriat, Telangana, India 504206 Mancheriat -----
6)Samala Jaya Prakash
 Address of Applicant :Flat 301, Venkatadri Apartment, Teachers Colony, East Marredpally, Secunderabad Hyderabad -----
7)Gangireddy Pavan Kumar Reddy
 Address of Applicant :H. No. 6/51, Simhadripuram, Cuddapah, Andhra Pradesh, 516454 Kurnool -----
8)Nuzhat Akhter
 Address of Applicant :Shahoo Sachan. H.NO, 80, Kulgam, J&K, India, 192231 Kulgam -----

(57) Abstract :
 The present invention generally relates to a method for preparing a bi-sexual lure-based stick trap. The method comprises selecting a paper sheet made of PP material, preferably from A4 or half A4 size; applying a non-toxic glue with high viscosity over a surface of the paper sheet and affixing a release paper over a glued sheet surface; formulating a bi-sexual lure upon mixing 5-15mg of 5,9 dimethyl heptadecane, 2-10mg of 5,9 dimethyl octadecane, and 5-15mg of Acetic acid, wherein the sheet is prepared with high-viscosity glue and covered with release paper; and applying the formulated lure evenly over the surface of the sheet, wherein a uniform application of the bisexual lure on the sheet results in a septa with an 8mm diameter, ensuring controlled diffusion of active constituents.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009554 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : E-SERV-EX: A MULTI-ITEM SCALE FOR MEASURING CUSTOMER EXPECTATIONS FROM THE ONLINE RETAIL SERVICES

(51) International classification :G06Q0030020000, G06Q0099000000, G06Q0010060000, H04L0041500900, H04L0043550000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Vikas Kumar Tyagi
 Address of Applicant :Department of Management Studies, Panipat Institute of Engineering and Technology, 70, Milestone GT Road, Panipat, Haryana, India- 132102 Panipat -----

2)Dr. Sarvesh Kumar
3)Manish Gulyani
4)Ruchi Gahlawat
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Vikas Kumar Tyagi
 Address of Applicant :Department of Management Studies, Panipat Institute of Engineering and Technology, 70, Milestone GT Road, Panipat, Haryana, India- 132102 Panipat -----

2)Dr. Sarvesh Kumar
 Address of Applicant :Dept. of Himachal Pradesh Kendriya Vishwavidyalaya Business School (HPKVPBS) Central University of Himachal Pradesh, VC Secretariat, Central University of Himachal Pradesh, Dharamshala, India- 176215 Kangra -----

3)Manish Gulyani
 Address of Applicant :Department of Management Studies Panipat Institute of Engineering and Technology, 70, Milestone GT Road, Samalkha, Panipat, Haryana, India- 132102 Panipat ----

4)Ruchi Gahlawat
 Address of Applicant :G2, Computer Centre, IIM Ahmedabad, Gujarat, India- 380015 Ahemdabad -----

(57) Abstract :
 This abstract outlines a comprehensive method for assessing customers' expectations in online retail services. It begins by developing a multi-item scale, E-SERV-EX, designed for measuring customer expectations. The scale undergoes refinement through psychometric evaluation, specifically employing exploratory factor analysis. The resulting tangible product includes the E-SERV-EX scale, with additional instructions for further refinement through psychometric evaluation. The method then extends its application to improving e-marketing strategies and web design based on the developed scale. E-marketing strategies are aligned with measured e-SQ expectations, emphasizing a customer-centric approach. Furthermore, the method addresses gaps in the Service Quality (SQ) model, specifically GAP 1 and GAP 5, related to expected service and customer perceptions. This holistic approach offers a systematic and versatile framework for understanding and enhancing customer expectations in the realm of online retail services.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009555 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SEAT AVAILABILITY AND SYSTEM THEREOF

(51) International classification :G06Q0010020000, G06F0008650000, G06Q0010060000, B64D0011000000, B61B0001020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Geeta Arora

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

2)Dr. Shubham Mishra

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

3)Jaya Gupta

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

4)Dr. Dipesh

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

(57) Abstract :

The invention is a screen-based system offering ticket upgrade options for both reserved and general seats. By leveraging this inventive method, a display system enabling passengers to track seat availability in specific berths and regularly updates this data. It is advantageous for both passengers and the railway system. The railway agency can generate additional revenue by reallocating previously reserved seats, while also providing added convenience to passengers who may not have the means to afford an upgrade or are on a waiting list.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009556 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AI-ENABLED FAKE NEWS DETECTION SYSTEM

(51) International classification :G06Q005000000, H04L0009320000, G06N0020200000, G06N0003080000, G06N0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Ajay Rastogi

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 phagwara -----

2)Prince Arora

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 phagwara -----

(57) Abstract :

The invention is an advance AI-enabled ensemble deep leaning-based approach (AID-Fake) for effectively detecting fake news. The system AID-Fake stands as a promising solution to the ever-evolving challenge of detecting fake news in online social media, offering a sophisticated and adaptive tool in the ongoing quest for information integrity and trustworthiness.

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009557 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : Z-SOURCE INVERTER WITH REDUCED LOSSES

(51) International classification :G06F30/20, G06F30/30, G06F30/367, G06F30/38, H02M7/42, H02M7/523

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Tushar Tyagi

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

2)Dr. Amit Kumar Singh

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

3)Dr. Himanshu Sharma

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

(57) Abstract :

This invention is a system for design of modified Z-source inverter with reduced losses, the system comprising: a processor resides on an application server; wherein the processor is configured to received design instructions from a user device; and a user device in communication with application server. The topology of single-phase ZSI is proposed with less count of active switches and passive elements in its structure. With reduction in count of switches, the switching losses, which contributes maximum to losses of the inverter, are reduced to a large extent.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009558 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BLOCKCHAIN-ENHANCED VOTING SYSTEMS

(51) International classification :G07C0013000000, H04L0009320000, H04L0009080000, H04L0009060000, G06Q0050260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Kriti Bedi

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

(57) Abstract :

This invention discloses the blockchain technology to provide a trustworthy and open voting system. This approach safeguards democratic elections by utilizing blockchain technology. It protects voters' privacy without compromising the integrity of vote tallies. This technological advancement makes it possible for citizens to vote remotely and safely from any location. This blockchain-enhanced voting system provides an efficient and trustworthy alternative for elections, referendums, shareholder meetings, and more by resolving crucial issues about electoral integrity through the use of cryptographic safeguards and decentralized verification.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009559 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC OPTICAL HEADER CONTROL SWITCHING

(51) International classification :G02B0006350000, H04Q0011000000, G01N0033500000, H04W0052020000, H04W0004021000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vishal

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

2)Seema

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

3)Dr. Devender Kumar

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

(57) Abstract :

The invention is an Automatic Optical Header Control Switching (AOHCS) System (100), the system (100) comprising: Optical Demultiplexers; Optical Multiplexers; Splitters; and Switches. The optical switch in the system is simpler, energy-efficient, and lightning-fast data pathways within multiple devices. Each switch is assigned different wavelength and is controlled by a particular wavelength.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009560 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PREVENTION OF PHISHING ATTACKS ON PERSONAL COMPUTERS THROUGH AI

(51) International classification :G06F0021550000, G06F0021560000, H04L0051000000, H04L0051080000, G06N0005020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Lovely Professional University

Address of Applicant :Lovely Professional University
Jalandhar Delhi GT Road Phagwara Punjab India-144411
Phagwara -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aman Singh

Address of Applicant :Lovely Professional University Jalandhar
Delhi GT Road Phagwara Punjab India-144411 Phagwara -----

(57) Abstract :

An innovative approach is introduced to streamline the process. The AI software integrated with email systems to automatically detect and flag phishing attempts could significantly enhance online security. AI software learns from previous phishing attacks and uses the knowledge to identify any suspicious threat that might attempt to trick us into revealing our sensitive information. AI software verifies the authenticity of the email that it genuinely came from the claimed source. AI software checks or scans any links and attachments included in the mail that has any malicious thing on it.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009607 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC WATER MANAGEMENT SYSTEM (WIRELESS)

(51) International classification :G01N0033180000, G06Q0050060000, A01G0027000000, A01G0025160000, E03C0001050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Abhishek Srivastava

Address of Applicant :538Ka/456/47, Shiv Puram, Triveni Nagar 3rd, Lucknow -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Abhishek Srivastava

Address of Applicant :538Ka/456/47, Shiv Puram, Triveni Nagar 3rd, Lucknow -----

(57) Abstract :

Automatic Water Management Systems are essential for addressing the global water crisis, ensuring sustainable utilisation of water resources thereby ensuring access to clean water for future generations. An Automatic Water Management System (Wireless) is a system and a method utilising Internet of Things (IoT) technology for automatic management of water supply to the water tank through ESP8266 wireless module based two standalone devices which are connected wirelessly. The system provides accurate and real time monitoring of water levels present in the water tank through distance sensors thereby eliminating the need for sensing wires and manual measurements, reducing errors and saving time and effort. The System incorporates automated control features, allowing for timely and precise control of water levels. These systems play a pivotal role in addressing water scarcity, pollution, and the impacts of climate change.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009637 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : THE IMPACT OF SOCIALLY RESPONSIBLE HUMAN RESOURCE MANAGEMENT PRACTICES ON ORGANISATIONAL BEHAVIOUR FOR THE ENVIRONMENT

<p>(51) International classification :G06Q0010060000, G06Q0010100000, G09B0019000000, C07K0014470000, G06Q0010040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Akanksha Sharma Address of Applicant :Assistant Professor, Meerut Institute of Technology, Meerut, Uttar Pradesh, India. --</p> <p>2)Dr.P.Jayasaradadevi 3)Deepti Tripathi 4)Mohini Pooja Huggahalli 5)Divesh Dutt 6)Dr uzmi anjum 7)Dr. Moiz Akhtar 8)Prabakaran V 9)Dr. Manjushri Janardan Yadav 10)Dr Mohd Asif Shah 11)Ms.R.Ramya 12)Anthony Savio Herminio da Piedade Fernandes Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Akanksha Sharma Address of Applicant :Assistant Professor, Meerut Institute of Technology, Meerut, Uttar Pradesh, India. -----</p> <p>2)Dr.P.Jayasaradadevi Address of Applicant :Assistant Professor, Department of Management Studies, Gayatri Vidya Parishad College for Degree and PG Courses, Visakhapatnam, 530045, Andhra Pradesh, India. -----</p> <p>3)Deepti Tripathi Address of Applicant :Asst. Professor, Department of MBA, Galgotia Institute of Management and Tech, Greater Noida, 201306, Gautam Buddha Nagar, Uttar Pradesh, India. -----</p> <p>4)Mohini Pooja Huggahalli Address of Applicant :Research Scholar, GITAM Business School, GITAM (Deemed to be University), Hyderabad- 502329, Ranga Reddy, Telangana, India. -----</p> <p>5)Divesh Dutt Address of Applicant :Assistant Professor, Department of Business Management, Integral University, Lucknow,226026, Uttar Pradesh, India. -----</p> <p>6)Dr uzmi anjum Address of Applicant :Associate Professor, Department of Business Management, Integral University, Lucknow,226026, Uttar Pradesh, India. -----</p> <p>7)Dr. Moiz Akhtar Address of Applicant :Associate Professor, Department of Business Management, Integral University, Lucknow, 226026, Uttar Pradesh, India. -----</p> <p>8)Prabakaran V Address of Applicant :Associate Professor, Department of Management Studies, SNS College of Technology, Coimbatore, 641 035, Tamilnadu, India. -----</p> <p>9)Dr. Manjushri Janardan Yadav Address of Applicant :Assistant Professor, Department of Management, IIBS, Bengaluru IIBS 562157, Karnataka, India. -----</p> <p>10)Dr Mohd Asif Shah Address of Applicant :University Centre for Research & Development, University School of Business, Chandigarh University, Gharuan, Mohali, Punjab, 140413, India. -----</p> <p>11)Ms.R.Ramya Address of Applicant :Assistant professor, Department of Management Studies, Excel Engineering college (Autonomous), Komarapalayam - 637303, India. -----</p> <p>12)Anthony Savio Herminio da Piedade Fernandes Address of Applicant :Founder Owner, Trading Equations, 54/C, Xell, Bastora, Bardez, North Goa, Goa - 403507, India. -----</p>
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(57) Abstract :
 THE IMPACT OF SOCIALLY RESPONSIBLE HUMAN RESOURCE MANAGEMENT PRACTICES ON ORGANISATIONAL BEHAVIOUR FOR THE ENVIRONMENT A method for the development of at the intersection of corporate social responsibility (CSR) and human resource management (HRM), a specific research strand has been forming and considerably flourishing over the past years, contributing to the burgeoning academic debate of what has been called socially responsible human resource management (SRHRM). The SRHRM debate seeks to proactively enhance employees' work experiences and meet their personal and social expectations in ethical and socially responsible ways. Social demands for corporate social responsibility (CSR) have been increasing in recent years. Organizations understand the need to follow socially responsible behavior to receive stakeholder support. In addition, the application of CSR principles within human resources (HR) management has become more relevant, and more empirical research is needed. Our framework shapes a holistic overview of the SRHRM domain and illuminates different relevant elements upon which future studies in this area could be developed. This contribution is also beneficial for general CSR literature as it stresses the importance of its internal stakeholders, which have been comprehensively given less attention so far. FIG.1

No. of Pages : 14 No. of Claims : 1

(54) Title of the invention : INTELLIGENT DNA SEQUENCING AND ANALYSIS SYSTEM WITH ARTIFICIAL INTELLIGENCE INTEGRATION

(51) International classification :C12Q0001686900, G16B0050000000, G16B0020000000, G16B0020200000, G16B0030000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)JSS Academy of Technical Education, Noida
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Kakoli Banerjee
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
2)Mr. Ajay Kumar
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
3)Dr. Pradeep Kumar
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
4)Mr. Harsha K.G.
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
5)Mr. Vinooth P
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
6)Dr. Sur Singh Rawat
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
7)Mr. Mukesh Raj
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
8)Ms. Surekha M.
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
9)Ms. Anuradha Singh
 Address of Applicant :JSS Academy of Technical Education, Noida, Gautam Buddha Nagar, Uttar Pradesh-201301, India -----
10)Mr. Priyank Sirohi
 Address of Applicant :Sir Chhotu Ram Institute of Engineering and Technology, C.C.S. University, Meerut-250001, Uttar Pradesh, India -----

(57) Abstract :
 The invention relates to a system and method for genetic analysis by seamlessly combining advanced high-throughput DNA sequencing technologies, particularly nanopore sequencing, with sophisticated artificial intelligence algorithms. This system automates the entire DNA sequencing process, from sample preparation to real-time data analysis, significantly improving efficiency and accuracy. The integrated artificial intelligence continuously adapts, enhancing processes such as variant calling and interpretation. The invention finds applications in genomics research, personalized medicine, and forensic analysis, providing a versatile and efficient tool for deciphering complex genetic information. This innovative system promises to propel genomics into a new era, facilitating breakthroughs in understanding diseases, improving therapeutic outcomes, and advancing forensic investigations.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009651 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CLOUDSHIELD SENTRY: ADVANCED INTRUSION DETECTION FOR SECURE CLOUD ENVIRONMENT

<p>(51) International classification :G06K0009620000, G06F0021550000, G06N0003080000, G06N0003040000, G06F0021620000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Ms. Barkha Samania Address of Applicant :Assistant Professor, Department (MCA), SRM University, Delhi-NCR Campus, Delhi-Meerut Road, Modinagar, Ghaziabad-201204 (U.P.) -----</p> <p>2)Dr. Nishant Kumar Pathak</p> <p>3)Dr. Alka Verma</p> <p>4)Harnit Saini</p> <p>5)Chitra</p> <p>6)Manoj Kumar</p> <p>7)Dr. Rahul Kumar Pandey</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Ms. Barkha Samania Address of Applicant :Assistant Professor, Department (MCA), SRM University, Delhi-NCR Campus, Delhi-Meerut Road, Modinagar, Ghaziabad-201204 (U.P.) -----</p> <p>2)Dr. Nishant Kumar Pathak Address of Applicant :Associate Professor, Department (Computer Science & Engineering), Ajay Kumar Garg Engineering College, Ghaziabad -----</p> <p>3)Dr. Alka Verma Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Teerthanker Mahaveer University, Moradabad, U.P -----</p> <p>4)Harnit Saini Address of Applicant :Assistant Professor, Department (Computer Science & Engineering), Ajay Kumar Garg Engineering College, Ghaziabad -----</p> <p>5)Chitra Address of Applicant :Assistant Professor, Department (Information Technology), Ajay Kumar Garg Engineering College, Ghaziabad -----</p> <p>6)Manoj Kumar Address of Applicant :Assistant Professor, Department (Computer Science & Engineering), Ajay Kumar Garg Engineering College, Ghaziabad -----</p> <p>7)Dr. Rahul Kumar Pandey Address of Applicant :Assistant Professor, Department (Applied Sciences and Humanities), Ajay Kumar Garg Engineering College, Ghaziabad -----</p>
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(57) Abstract :

[027] This invention introduces an Intrusion Detection System (IDS) tailored for Cloud Computing (CC) environments, addressing security challenges associated with unauthorized access, data breaches, and insider threats. The IDS utilizes Deep Learning (DL) algorithms, including the Radial Basis Function Neural Network (RBFNN) and Random Forest (RF) classifier, enhancing accuracy to over 92% with minimal features. Validation with Bot-IoT and NSL-KDD datasets demonstrates efficacy. The proposed method incorporates key optimizations like parallel processing, optimized data structures, and feature reduction with RF, improving efficiency. By merging DL techniques and innovative feature selection, this IDS offers a robust solution for CC security, mitigating risks and reinforcing the overall security posture. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009946 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A UNIFIED MULTIFUNCTIONAL-RECONFIGURABLE DESIGN WITH DEVICE-CIRCUIT CO-OPTIMIZATION

(51) International classification :H01L0029780000, H01L0027020000, H01L0027060000, H01L0029660000, H01L0023528000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gagan

Address of Applicant :H.No.-216, Vill.-Mandpura, P.O.-Sherpur, Teh.-Pataudi, Dist.-Gurgaon, HR-122502. -----

2)Akansha Aggarwal

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gagan

Address of Applicant :H.No.-216, Vill.-Mandpura, P.O.-Sherpur, Teh.-Pataudi, Dist.-Gurgaon, HR-122502. -----

2)Akansha Aggarwal

Address of Applicant :B-63 A, Mansarovar Park, Shahdara, Delhi-110032. Delhi -----

(57) Abstract :

The present invention relates to a novel unified multifunctional-reconfigurable design with device-circuit co-optimization approach to achieve functional scalability and diversifiability within the same footprint. The proposed device design comprises two L-shaped NMOS transistors monolithically integrated atop two L-shape PMOS transistors, all four utilizing a common silicon reservoir with electrostatically doped (ESD) source and drain regions. The ESD regions are induced by choosing appropriate work functions for the metal electrodes using calibrated TCAD simulations. Through source-drain interchangeability among individual transistors and appropriate signal bias, the device design provides possible reconfigurations of the proposed single architecture to perform various device and/or circuit level operations concurrently/separately with tunable performance. Initially, for device level analyses, it has realized concurrent NMOS and PMOS, in single-channel as well as dual-channel configurations. Further, for circuit level analyses, it has demonstrated a CMOS inverter in addition to an NMOS and a PMOS, all three operating independently. It has also realized two independent inverters and consequently a buffer when both of them are connected in series. Lastly, it has implemented NAND and NOR universal gates, each in two possible configurations, obtained through the same device architecture.

No. of Pages : 31 No. of Claims : 10

(54) Title of the invention : SYSTEM FOR PRECISION AGRICULTURE USING IOT DATA ANALYTICS AND MACHINE LEARNING

(51) International classification :H04W0084180000, G06N0020000000, H04L0067120000, G06N0005040000, G06Q0050020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Ashu Gautam
 Address of Applicant :Professor, ECE, Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad - 122103, Haryana, India. Faridabad ---

2)Dr. Nikhil Kumar Marriwala
3)Dr. P. Padmaloshani
4)Saurabh Suman
5)Neelam Bohra
6)Dr. Vajenti Mala
7)Deepa Jose
8)Dr. Reena Chandel
9)Sinthuja PM
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Dr. Ashu Gautam
 Address of Applicant :Professor, ECE, Manav Rachna International Institute of Research and Studies (MRIIRS), Faridabad - 122103, Haryana, India. Faridabad ---

2)Dr. Nikhil Kumar Marriwala
 Address of Applicant :Assistant Professor, Electronics and Communication Engineering Department, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra - 135001, Haryana, India. Kurukshetra -----

3)Dr. P. Padmaloshani
 Address of Applicant :Associate Professor, Department of ECE, Muthayammal Engineering College, Rasipuram - 637408, Tamil Nadu, India Rasipuram -----

4)Saurabh Suman
 Address of Applicant :Assistant Professor (CSE), Government Engineering College Munger, Bihar - 811202, India. Munger -----
5)Neelam Bohra
 Address of Applicant :Research Scholar, Computer Science Department, M.B.M University, Jodhpur, Rajasthan - 342008, India. Jodhpur -----
6)Dr. Vajenti Mala
 Address of Applicant :Galgotias University, New Delhi - 110067, India. New Delhi -----
7)Deepa Jose
 Address of Applicant :Professor, Navins Springfield, Chennai – 600100, Tamil Nadu, India. Chennai -----
8)Dr. Reena Chandel
 Address of Applicant :RayatBahra University, Tehsil Kharar, Mohali Punjab – 140301, India. Mohali -----
9)Sinthuja PM
 Address of Applicant :Assistant Professor, St Joseph's College of engineering, Department of Information Technology, Chennai - 600106 Tamil Nadu, India. Chennai -----

(57) Abstract :
 ABSTRACT SYSTEM FOR PRECISION AGRICULTURE USING IOT DATA ANALYTICS AND MACHINE LEARNING System for precision agriculture using IoT data analytics and machine learning comprises a prediction module; a real time data of wireless sensor; and a plurality of WSN/IoT nodes. The prediction model predicts factors selected from pH, K, P, N and OC, which are crucial for a quality crop. The real time data of wireless sensors are used as input for linear regression model. The WSN/IoT nodes scattered in the plant with nearby gateway for collection of the data from the mesh of the nodes. The data analysis is performed on the real time basis for each location/ orchard for quick action if needed. The gateway is incorporated in WSN that provides connectivity back to the wired world and distributed nodes using zigbee module.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009976 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOLAR POWER BASED INTERNET OF THINGS (IOT) BASED RAPID CHARGING OF ELECTRIC VEHICLES

(51) International classification :H02J0007000000, H01M0010440000, B60L0053100000, H04L0067120000, H02J0007040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JB Institute of Technology

Address of Applicant :JB Institute of Technology, Dehradun, 23 Milestone, NH-07, Chakrata Rd, Shankarpur, Uttarakhand 248197, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Swati Kamal Tripathi

Address of Applicant :JB Institute of Technology, Dehradun,248197 -----

2)Mr. Lakhon Singh

Address of Applicant :JB Institute of Technology, Dehradun,248197 -----

(57) Abstract :

ABSTRACT: SOLAR POWER BASED INTERNET OF THINGS (IOT) BASED RAPID CHARGING OF ELECTRIC VEHICLES

This abstract introduces a Solar Power-based Internet of Things (IoT) system designed for the rapid charging of electric vehicles (EVs). By harnessing solar energy and integrating advanced IoT technology, the system aims to offer efficient and sustainable charging solutions. Real-time monitoring and optimization algorithms enable the system to dynamically adjust charging parameters, maximizing the use of solar resources and minimizing charging times. The integration of IoT capabilities allows for remote monitoring, control, and management of the charging infrastructure, enhancing user experience and operational efficiency. Furthermore, the system contributes to environmental sustainability by reducing reliance on fossil fuels and minimizing carbon emissions associated with traditional energy sources. Through its innovative approach, the Solar Power-based IoT-based rapid charging system addresses key challenges in EV charging infrastructure, paving the way for a more sustainable and accessible transportation ecosystem.

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED HUMAN RESOURCE (HR) MANAGEMENT SYSTEM FOR IT COMPANIES

<p>(51) International classification :G06Q0010100000, G06Q0010060000, G06N0020000000, G06N0005040000, G16H0040200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Prof. (Dr.) Sandeep Gupta Address of Applicant :Director, Sunder Deep Engineering College, Ghaziabad (Affiliated to AKTU, Lucknow), 201015, Uttar Pradesh -----</p> <p>2)Dr. Ashish Kumar Mourya</p> <p>3)Mr. Parvinder Kumar</p> <p>4)Dr. Shafqat Ul Ahsaan</p> <p>5)Ms. Ritu Malhotra</p> <p>6)Mr. Rupak Kumar</p> <p>7)Dr. Anand M</p> <p>8)Mr. Abhishek Singh Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Prof. (Dr.) Sandeep Gupta Address of Applicant :Director, Sunder Deep Engineering College, Ghaziabad (Affiliated to AKTU, Lucknow), 201015, Uttar Pradesh -----</p> <p>2)Dr. Ashish Kumar Mourya Address of Applicant :Head of the Department, Department of Computer Application, Greater Noida Institute of Professional Studies, Gr. Noida (Affiliated to CCS University, Meerut), Uttar Pradesh-201310 -----</p> <p>3)Mr. Parvinder Kumar Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, HMRITM (Affiliated to IP University), New Delhi-110036 -----</p> <p>4)Dr. Shafqat Ul Ahsaan Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, NIMS University, Jaipur-303121, Rajasthan -----</p> <p>5)Ms. Ritu Malhotra Address of Applicant :Assistant Professor, Department of Computer Application, Greater Noida Institute of Professional Studies, Gr. Noida (Affiliated to CCS University, Meerut), Uttar Pradesh-201310 -----</p> <p>6)Mr. Rupak Kumar Address of Applicant :Assistant Professor, Department of Information Technology, IMS Engineering College, Ghaziabad, (Affiliated to AKTU, Lucknow), 201015, Uttar Pradesh -----</p> <p>7)Dr. Anand M Address of Applicant :Assistant Professor, Department of Data Science and Business Systems, School of Computing College of Engineering and Technology, SRM Institute of Science and Technology, SRM Nagar, Potheri, Kattankulathur, 603203, Tamil Nadu -----</p> <p>8)Mr. Abhishek Singh Address of Applicant :Head of the Department, Department of Computer Application, Sunder Deep Engineering College, Ghaziabad (Affiliated to AKTU, Lucknow), 201015, Uttar Pradesh -----</p>
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(57) Abstract :

The proposed invention presents an AI-based HR Management System tailored specifically for IT companies, integrating machine learning algorithms, natural language processing, and big data analytics to revolutionize HR practices. This system automates recruitment processes, streamlines candidate selection, and personalizes onboarding experiences for new hires. Through real-time performance tracking and talent management features, it identifies high-potential employees, fosters a positive work environment, and reduces turnover rates. Additionally, an executive dashboard provides key HR metrics for data-driven decision-making, while a collaboration platform promotes knowledge sharing and cross-functional collaboration. Compliance and risk management are ensured through automated checks and audit trails. The system's innovative roadmap incorporates advanced AI capabilities to further enhance effectiveness and efficiency, offering IT companies a strategic advantage for optimizing HR processes, driving innovation, and achieving sustainable growth in the digital age.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009709 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATION OF IOT SENSORS WITH AI AND INFERENTIAL STATISTICS IN SUPPLY CHAIN MANAGEMENT

(51) International classification :G06Q0010060000, G06N0020000000, G06N0005040000, G06Q0030020000, G06Q0010080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Mr. Pawan Kumar Badhan
 Address of Applicant :Assistant Professor, IT Department, Pyramid College of Business and Technology, Phagwara, Punjab. Phagwara -----

2)Ms. Navjot Kaur
3)Ms. Manjeet Kaur
4)Mr. Inderpal Singh
5)Mr. Karan Thakur
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mr. Pawan Kumar Badhan
 Address of Applicant :Assistant Professor, IT Department, Pyramid College of Business and Technology, Phagwara, Punjab. Phagwara -----

2)Ms. Navjot Kaur
 Address of Applicant :Assistant Professor, IT Department, Pyramid College of Business and Technology, Phagwara, Punjab. Phagwara -----

3)Ms. Manjeet Kaur
 Address of Applicant :Assistant Professor, IT Department, Pyramid College of Business and Technology, Phagwara, Punjab Phagwara -----

4)Mr. Inderpal Singh
 Address of Applicant :Computer Application Department, CKD Institute of Management and Technology, Tarn Taran, Punjab. Tarn Taran -----

5)Mr. Karan Thakur
 Address of Applicant :Assistant Professor, Management Department, Pyramid College of Business and Technology, Phagwara, Punjab. Phagwara -----

(57) Abstract :
 The current invention represents a groundbreaking advancement in the field of supply chain management. It introduces an advanced system and methodology that utilizes the synergy of Internet of Things (IoT) sensors, cutting-edge Artificial Intelligence module (AI), and robust inferential statistics. This innovative approach aims to transform conventional practices in supply chain management, with a focus on improving decision-making processes, increasing operational efficiency, and significantly reducing overall operational costs. At its essence, the integration of IoT sensors ensures the real-time gathering of data from various points across the supply chain. This extensive dataset is then processed through a sophisticated AI module, enabling intricate analytics and predictive modeling. The system's capability to analyze vast datasets facilitates the identification of patterns, trends, and potential bottlenecks, providing decision-makers with invaluable insights. By seamlessly integrating AI with inferential statistics, the system not only interprets current data but also generates well-informed predictions regarding future trends and challenges. This foresight empowers supply chain managers to proactively address issues, optimize resource allocation, and make strategic decisions that positively influence the entire supply chain ecosystem. Ultimately, the pioneering system aims to redefine supply chain management by introducing a comprehensive, data-driven approach. Through the amalgamation of IoT, AI, and inferential statistics, it strives to usher in a new era characterized by enhanced efficiency, cost-effectiveness, and strategic decision-making in the dynamic landscape of supply chain operations.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009732 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BLOCKCHAIN ENABLED CLOUD SYSTEM FOR HEALTHCARE DATA MANAGEMENT

(51) International classification :G16H0010600000, H04L0009320000, G06F0021620000, G06F0021640000, H04L0009060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)The NorthCap University

Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23A, Gurugram Haryana India 122017 Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Garima Sharma

Address of Applicant :Assistant Professor (Senior Scale), The NorthCap University, Gurugram Haryana India Gurugram -----

2)Dr. Prerna Singal

Address of Applicant :Assistant Professor (Senior Scale), The NorthCap University Gurugram Haryana India Gurugram -----

3)Ms. Monika Yadav

Address of Applicant :Assistant Professor, The NorthCap University Gurugram Haryana India Gurugram -----

(57) Abstract :

BLOCKCHAIN ENABLED CLOUD SYSTEM FOR HEALTHCARE DATA MANAGEMENT The present invention discloses blockchain-enabled cloud solution for healthcare data management. The system utilizes blockchain technology to securely and transparently store, manage, and share healthcare data in a cloud-based environment. By leveraging the immutability, decentralization, and cryptographic security features of blockchain, the system ensures the integrity, privacy, and accessibility of healthcare data for patients, healthcare providers, and other authorized stakeholders. The invention facilitates seamless data exchange, interoperability, and auditability, thereby enhancing the efficiency, accuracy, and security of healthcare data management.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009733 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR PREPARATION OF CHEWABLE HERBAL TABLETS USING BUTTON MUSHROOMS

(51) International classification :A61K0009000000, A61P0003020000, G06Q0050000000, A23L0031000000, A61K0036740000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Shri Ram Murti Smarak College of Engineering and Technology (Pharmacy)
 Address of Applicant :Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

2)Dr. Manjoo Rani
3)Dr. Jitendra Singh Yadav
4)Dr. Arti Gupta
5)Dr. Nita Yadav
6)Dr. Ravindra Kumar
7)Dr. Saty Dev

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Manjoo Rani
 Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

2)Dr. Jitendra Singh Yadav
 Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

3)Dr. Arti Gupta
 Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

4)Dr. Nita Yadav
 Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

5)Dr. Ravindra Kumar
 Address of Applicant :Department of Mechanical Engg., Shri Ram Murti Smarak College of Engineering and Technology, Ram Murti Puram, 13 KM, Bareilly – Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

6)Dr. Saty Dev
 Address of Applicant :Department of Mechanical Engg., Shri Ram Murti Smarak College of Engineering and Technology, Ram Murti Puram, 13 KM, Bareilly – Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

(57) Abstract :
 METHOD FOR PREPARATION OF CHEWABLE HERBAL TABLETS USING BUTTON MUSHROOMS Accordingly, embodiments herein disclose method for preparation of chewable herbal tablets using button mushrooms. The method involves collecting unique properties of button mushrooms. The button mushrooms are preventing malnutrition, promoting protein-rich nutritional supplementation and enhancing probiotic gut microbiota that exhibits anti-cancer properties. The public health and social well-being is significantly contributed by strategically unlocking the health benefits of button mushrooms. Further, the proposed method may involve choosing a chewable tablet format not only increasing practicality and accessibility, but also makes daily use even more convenient, making it a convenient and enjoyable way for individuals to proactively manage their gut health. Therefore, the proposed method is to make a remarkable contribution to promoting social well-being more broadly.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009734 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MACHINE LEARNING-BASED PERSONALIZED MEDICINE RECOMMENDER SYSTEM

(51) International classification :G16H0010600000, G06N0020000000, G16H0050700000, G06F0021620000, G16H0050200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Naveen Kumar Pandey
 Address of Applicant :Assistant Professor, Department of Computer Science, Dev Sanskriti Vishwavidyalaya, Shantikunj, Haripur Kalan, Haridwar, Uttarakhand 249411, India Haridwar -----
2)Dr. Narendra Kumar Sharma
3)Dr. Shruti B. Yagnik
4)Dr. Premal chimanlal Patel
5)Dr. Nilesh Jain
6)Dr. Bal Krishna Sharma
7)Mr. Deepak Kumar Mehta
8)Dr. Parth Gautam
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Naveen Kumar Pandey
 Address of Applicant :Assistant Professor, Department of Computer Science, Dev Sanskriti Vishwavidyalaya, Shantikunj, Haripur Kalan, Haridwar, Uttarakhand 249411, India Haridwar -----
2)Dr. Narendra Kumar Sharma
 Address of Applicant :Associate Professor, Department of Computer Application, Pranveer Singh Institute of Technology, NH 19, Kanpur, Bhautipratappur, Uttar Pradesh 209305, India Kanpur -----
3)Dr. Shruti B. Yagnik
 Address of Applicant :Associate Professor, Department CE/IT, Indus University, Ahmedabad – 382 115. Gujarat, India Ahmedabad -----
4)Dr. Premal chimanlal Patel
 Address of Applicant :Associate Professor, Computer Engineering Department, Silver Oak University, 370/371, near Bhavik Publication, Gota Gam, Gota, Ahmedabad, Gujarat 382481, India Ahmedabad -----
5)Dr. Nilesh Jain
 Address of Applicant :Associate Professor, Department of Computer Science and Applications, Mandsaur University, Daulatpura, Madhya Pradesh 458001, India Dhar -----
6)Dr. Bal Krishna Sharma
 Address of Applicant :Professor, Department of Computer Science and Applications, Mandsaur University, Daulatpura, Madhya Pradesh 458001, India Dhar -----
7)Mr. Deepak Kumar Mehta
 Address of Applicant :Assistant Professor, Department of Computer Science and Applications, Mandsaur University, Daulatpura, Madhya Pradesh 458001, India Dhar -----
8)Dr. Parth Gautam
 Address of Applicant :Assistant Professor, Department of Computer Science and Applications, Mandsaur University, Daulatpura, Madhya Pradesh 458001, India Dhar -----

(57) Abstract :
 The machine learning-based personalized medicine recommender system represents a significant advancement in healthcare technology by leveraging machine learning algorithms to provide tailored medication recommendations for individual patients. This system integrates diverse healthcare data sources, including electronic health records, genetic information, and medical imaging, to extract relevant features and train a predictive model. Healthcare providers can access the system through a user-friendly interface, input patient data, and receive personalized medication recommendations based on patient characteristics and treatment goals. By utilizing supervised learning techniques and ensuring data privacy and security, this system offers a powerful tool for improving treatment outcomes and optimizing medication regimens. Continuous feedback mechanisms enable refinement and enhancement of the machine learning model, ensuring its effectiveness in supporting personalized medicine practices.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009735 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED WASTE-ENERGY SYSTEM FOR RURAL SUSTAINABILITY

(51) International classification :C12M0001107000, C12M0001000000, C12P0005020000, C12N0001200000, H01M0010420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shri Ram Murti Smarak College of Engineering and Technology (Pharmacy)

Address of Applicant :Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

2)Dr. Manjoo Rani

3)Dr. Ravindra Kumar

4)Dr. Arti Gupta

5)Dr. Jitendra Singh Yadav

6)Dr. Neeta Yadav

7)Dr. Saty Dev

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Manjoo Rani

Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

2)Dr. Ravindra Kumar

Address of Applicant :Department of Mechanical Engg., Shri Ram Murti Smarak Trust, Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

3)Dr. Arti Gupta

Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

4)Dr. Jitendra Singh Yadav

Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

5)Dr. Neeta Yadav

Address of Applicant :Shri Ram Murti Smarak College of Engineering and Technology, (Pharmacy), Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

6)Dr. Saty Dev

Address of Applicant :Department of Mechanical Engg., Shri Ram Murti Smarak Trust, Ram Murti Puram, 13 KM, Bareilly - Nainital Rd, Bhoji Pura, Uttar Pradesh – 243202, India Bareilly -----

(57) Abstract :

INTEGRATED WASTE-ENERGY SYSTEM FOR RURAL SUSTAINABILITY Accordingly, embodiments herein disclose an integrated waste-energy system for rural sustainability. The waste-energy system comprises a plurality of fertilizers producing biogas. The integrated waste-energy system maximizes the biogas production by the individual farmers. The specialized culture of microbial consortium is incorporated with the reliable source of clean energy and valuable fertilizers. The rural economic empowerment promotes sustainable development, reduces dependence on conventional energy and creates economic opportunities. The diverse solution is poised to transform waste management, clean energy and community development and represent a significant step towards sustainable rural livelihoods. Therefore, the proposed design of system optimizes resource utilization, making it an accessible and practical solution for individual users.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009736 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR UPGRADING DENTAL COTTON

(51) International classification :A61C0013000000, A61F0013530000, A61C0005900000, A61C0017080000, A61C0019000000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)I.T.S Dental College

Address of Applicant :Delhi-Meerut Road, Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Priyancy Agarwal

Address of Applicant :I.T.S Dental College, Delhi-Meerut Road, Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

2)Dr. Sonali Taneja

Address of Applicant :I.T.S Dental College, Delhi-Meerut Road, Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

3)Dr. Ritu Gupta

Address of Applicant :I.T.S Dental College, Delhi-Meerut Road, Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

(57) Abstract :

METHOD FOR UPGRADING DENTAL COTTON Accordingly, embodiments herein disclose method for upgrading dental cotton. The method is to modify the manufacturing of dental cotton rolls, cotton wafers, loose cotton which are widely used in dental procedures in worldwide for isolation to absorb saliva and other fluids which helps to keep the operative areas free of excess moisture. The method involves placing small rolls of fluff cotton in a patient's mouth at the onset of treatment. Followed by, adding fluff along with 1-2% of superabsorbent (SAP) and 1-2% of adhesives to the fluff cotton thereby increasing the absorbability of the existing cotton rolls. Further, the proposed method may involve coating cellulose to the existing cotton rolls so that it does not stick to oral tissues. Therefore, fluff pulp has absorbed 20% more liquid when compared to normal dental cotton and extra of approximately 6% more fluid which totals to 26% approximately. Figure to be published with Abstract: Figure 1

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009737 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A PRESSURE SENSITIVE PERIODONTAL PROBE

(51) International classification :A61C19/00, A61C19/04,
G01R1/067
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ITS Dental College

Address of Applicant :Delhi-Meerut Road, Muradnagar,
Ghaziabad Uttar Pradesh India 201206 Ghaziabad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Mayank Singh

Address of Applicant :ITS Dental College, Delhi-Meerut Road,
Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

2)Dr. Shreya Mishra

Address of Applicant :ITS Dental College, Delhi-Meerut Road,
Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

3)Dr. Sumit Malhotra

Address of Applicant :ITS Dental College, Delhi-Meerut Road,
Muradnagar, Ghaziabad Uttar Pradesh India 201206 Ghaziabad ---

(57) Abstract :

A PRESSURE SENSITIVE PERIODONTAL PROBE Accordingly, embodiments herein disclose a pressure sensitive periodontal probe for measuring various aspects of periodontal health, such as pocket depth, gingival recession, and clinical attachment levels. The pressure sensitive periodontal probe (100) comprises a handle (101); a spring (102); and a hemispheric probe tip (103) which is configured to connect with the spring (102). The spring (102) controls the pressure extended to the probe tip (103) of the periodontal probe (100). The controlled probing pressure of about 20g is usually applied, and wherein once the pressure exceeds 20g of force the spring (102) compresses itself and causes the probe tip (103) to move upward and the reading on the probe tip (103) becomes constant. Figure to be published with Abstract: Figure 1

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009738 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED ENVIRONMENTAL MONITORING AND TRAFFIC OPTIMIZATION SYSTEM UTILIZING IOT, BLOCKCHAIN, AND ADVANCED TRAFFIC MANAGEMENT

<p>(51) International classification :G08G0001010000, H04L0009320000, G06Q0010040000, H04L0067120000, G08G0001080000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)The NorthCap University Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23A, Gurugram Haryana India 122017 Gurugram ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr Mehak Khurana Address of Applicant :The NorthCap University, Gurugram Haryana India Gurugram ----- 2)Ananya Sharma Address of Applicant :The NorthCap University Gurugram Haryana India Gurugram ----- 3)Shubham Jain Address of Applicant :The NorthCap University, Gurugram Haryana, India Gurugram ----- 4)Arpita Samal Address of Applicant :The NorthCap University Gurugram Haryana India Gurugram -----</p>
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(57) Abstract :
INTEGRATED ENVIRONMENTAL MONITORING AND TRAFFIC OPTIMIZATION SYSTEM UTILIZING IOT, BLOCKCHAIN, AND ADVANCED TRAFFIC MANAGEMENT The present invention discloses an Integrated Environmental Monitoring and Traffic Optimization System (IEMTOS) designed to address the challenges of environmental sustainability and urban traffic congestion. Combining Internet of Things (IoT) sensors, blockchain technology, and advanced traffic management algorithms, IEMTOS offers a comprehensive solution for real-time environmental monitoring and intelligent traffic optimization. The system collects data on air quality, noise levels, and traffic flow through a network of IoT sensors deployed across urban areas. This data is securely stored and verified using blockchain technology, ensuring transparency and immutability. Advanced algorithms analyze the data to optimize traffic signal timings, reroute vehicles, and minimize congestion, thereby reducing emissions and improving overall environmental quality. IEMTOS represents a significant advancement in smart city infrastructure, promoting sustainability, efficiency, and livability in urban environments.

No. of Pages : 14 No. of Claims : 10

(54) Title of the invention : INTEGRATED IOT-BASED SLEEP PATTERN ANALYSIS, QUALITY MONITORING AND IMPROVEMENT SYSTEM

(51) International classification :A61B0005000000, A61B0005110000, G16H0020300000, G16H0050200000, G16H0020700000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA Bareilly -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
2)Prof. S.S. Bedi
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
3)Dr. Preeti Yadav
 Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
4)Dr. Anil Bisht
 Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
5)Mr. Sushil Gangwar
 Address of Applicant :Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----
6)Mr. Vinay Maurya
 Address of Applicant :Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 Integrated IoT-based sleep pattern analysis, quality monitoring, and improvement system. The proposed invention introduces a novel integrated IoT-based sleep pattern analysis, quality monitoring, and improvement system designed to provide a comprehensive solution for optimizing sleep health. Utilizing the capabilities of Internet of Things (IoT) devices, the system seamlessly combines three essential functions: advanced sleep pattern analysis, real-time sleep quality monitoring, and adaptive environmental adjustments for improvement. Through this integration, the proposed system aims to deliver a holistic approach to sleep optimization. The IoT-connected sensors collect detailed sleep data, enabling precise pattern analysis and facilitating dynamic adjustments to the sleep environment. This inventive integration seeks to redefine the landscape of sleep technology, offering a unified and intelligent solution for individuals in pursuit of a personalized and effective approach to sleep health.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : AQUAWATCH: DEPLOYING IOT SENSORS FOR REAL-TIME WATER QUALITY MONITORING IN LAKES, RIVERS, AND RESERVOIRS FOR POLLUTION DETECTION AND ENVIRONMENTAL CONSERVATION

(51) International classification :G01N0033180000, H04L0067120000, G06N0020000000, G08B0021120000, G01N0033000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MJP ROHILKHAND UNIVERSITY
 Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA Bareilly -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Vinay Rishiwal
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

2)Dr. Preeti Yadav
 Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

3)Prof. S.S. Bedi
 Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

4)Dr. Brajesh Kumar
 Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

5)Dr. Akhtar Hussain
 Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

6)Mr. Vinay Maurya
 Address of Applicant :Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----

(57) Abstract :
 AquaWatch introduces an advanced method for environmental monitoring by employing Internet of Things (IOT) sensors to assess water quality in lakes, rivers, and reservoirs in real-time. This novel system is designed to offer timely and precise data essential for the detection of pollution and the implementation of effective environmental conservation measures. Through the utilization of IOT technology, AquaWatch ensures continuous monitoring, providing a comprehensive understanding of water conditions. The collected real-time data supports the early identification of pollutants, contributing to proactive conservation efforts. This initiative represents a significant stride towards sustainable water management and the preservation of aquatic ecosystems.

No. of Pages : 13 No. of Claims : 4

(54) Title of the invention : SMARTWEEDX: CUTTING-EDGE WEED DETECTION AND ERADICATION SYSTEM USING IOT TECHNOLOGY AND AUTONOMOUS ROBOTIC ARMS

<p>(51) International classification :A01M0021040000, G06Q0050020000, G01N0033000000, G06N0003040000, H04L0067120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MJP ROHILKHAND UNIVERSITY Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA Bareilly -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Vinay Rishiwal Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>2)Dr. Brajesh Kumar Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>3)Dr. Preeti Yadav Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>4)Dr. Akhtar Hussain Address of Applicant :Associate Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>5)Dr. Iram Naim Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p>
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(57) Abstract :
 SmartWeedX, is a proposed system that transforms weed management in agricultural settings. The system incorporates state-of-the-art technologies, including the Internet of Things (IoT) and autonomous robotic arms, to revolutionize the processes of weed detection and eradication. SmartWeedX utilizes advanced IOT sensors for accurate real-time identification and classification of weeds, providing precise data for targeted intervention. The autonomous robotic arms, equipped with adaptive algorithms, navigate the agricultural landscape, selectively eliminating identified weeds while minimizing impact on crops. This ground-breaking solution not only enhances weed control efficiency but also prioritizes sustainability by reducing reliance on traditional herbicides. SmartWeedX represents a significant leap forward in precision agriculture, offering a scalable and environmentally friendly approach to weed management for optimized crop yields and environmental conservation.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009776 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : UTILIZATION OF POULTRY WASTE FOR PREPARATION OF POULTRY COMPOST: A ORGANIC FERTILIZER

(51) International classification :C12N0001200000, A22C0021020000, C12N0007000000, A22C0021000000, C12N0009520000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Richa

Address of Applicant :Assistant Professor Department of Health Sciences, Abhilashi University Mandi (H.P.) Himachal Pardesh -----

2)Dr. Vijay Kumar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Richa

Address of Applicant :Assistant Professor Department of Health Sciences, Abhilashi University Mandi (H.P.) Himachal Pardesh ---

2)Dr. Vijay Kumar

Address of Applicant :Assistant Professor Department of Biotechnology, UIBT Chandigarh University, Mohali Punjab Chandigarh -----

(57) Abstract :

ABSTRACT: The present invention pertains to the conversion of chicken feathers and poultry waste into poultry compost, utilizing specific bacterial strains, particularly *Bacillus thuringiensis* VP4, which produces the keratinase enzyme capable of degrading poultry waste. The method involves collecting chicken feathers and mixed poultry waste, preparing a compost mixture, inoculating it with the keratinolytic isolate VP4, and monitoring the decomposition process. Physicochemical analysis of the resulting poultry compost provides valuable insights into its properties. This invention addresses the environmental pollution caused by untreated poultry waste and presents an eco-friendly solution for waste management.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009783 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR PRESERVING PRIVACY OF TELEMATIC DATA

(51) International classification :H04L0009000000, G06F0021620000, G06Q0040080000, G06F0021600000, H04L0009320000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HCL Technologies Limited
 Address of Applicant :806, Siddharth, 96, Nehru Place, New Delhi - 110019, INDIA New Delhi -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Duc Cuong Nguyen
 Address of Applicant :HCL VIETNAM COMPANY LIMITED, Level 17, Leadvisors Tower, 643 Pham Van Dong Street, North Tu Liem District, Hanoi, Vietnam, 100000 -----
2)Hiep Nguyen
 Address of Applicant :HCL VIETNAM COMPANY LIMITED, Level 17, Leadvisors Tower, 643 Pham Van Dong Street, North Tu Liem District, Hanoi, Vietnam, 100000 -----
3)Simy Chacko
 Address of Applicant :HCL Technologies Limited, ELCOT-SEZ, Special Economic Zone, 602/3, 138, Shollinganallur Village, Shollinganallur – Medavakkam High Road, Tambaram Taluk, Kancheepuram (Dist), Chennai - 600119, Tamil Nadu, India Chennai -----

(57) Abstract :
 ABSTRACT METHOD AND SYSTEM FOR PRESERVING PRIVACY OF TELEMATIC DATA This disclosure relates to system (100) and method (300) for preserving privacy of telematic data. The method (300) includes receiving (302) telematic data from a vehicle (108) and a set of predefined policies from an insurance provider (110). The telematic data and the set of predefined policies are homomorphically encrypted through a multi-key homomorphic encryption technique. The method (300) further includes analyzing (304) the telematic data and the set of predefined policies to obtain an analysis result; sharing (306) the analysis result with the vehicle (108) in an encrypted format; partially decrypting (308) the analysis result to obtain a partially decrypted result; sharing (310) the partially decrypted result to the insurance provider (110); decrypting (312) the partially decrypted result to obtain fully decrypted result in a plain-text format. The fully decrypted result provides risk score information to the insurance provider (110) without revealing sensitive information corresponding to the vehicle (108). [To be published with Figure 1]

No. of Pages : 43 No. of Claims : 10

(54) Title of the invention : INTEGRATED IOT SOLUTIONS FOR HOLISTIC ELDERLY CARE: CONTINUOUS VITAL SIGNS MONITORING AND ALERTS IN HUMAN-CENTRIC SMART HOMES

<p>(51) International classification :A61B0005000000, A61B0005080000, A61B0005024000, A61B0005020500, G16H0040670000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MJP ROHILKHAND UNIVERSITY Address of Applicant :MJP ROHILKHAND UNIVERSITY, BAREILLY, INDIA Bareilly -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Vinay Rishiwal Address of Applicant :Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>2)Dr. Preeti Yadav Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>3)Dr. Anil Bisht Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>4)Mr. Sushil Gangwar Address of Applicant :Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p> <p>5)Dr. Pankaj Roy Address of Applicant :Assistant Professor, Dept. of CSIT, MJPRU, Bareilly, India Bareilly -----</p>
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(57) Abstract :

Integrated IoT Solutions for Comprehensive Elderly Care: Continuous Monitoring of Vital Signs and Alerts in Human-Centric Smart Homes is the proposed invention. The system harnesses the capabilities of the Internet of Things (IoT) to establish a holistic and person-centered approach to caring for the elderly within smart home environments. Through strategically positioned IoT devices throughout the living space, the system enables ongoing monitoring of vital signs, including key health indicators like heart rate and respiratory rate. Real-time data analysis triggers personalized alerts and notifications, offering timely information to caregivers and ensuring a proactive response to potential health issues. This technology-driven and comprehensive approach aims to elevate the well-being and safety of elderly individuals, promoting independence and an enhanced quality of life within the familiar setting of their homes.

No. of Pages : 12 No. of Claims : 4

(54) Title of the invention : MILK BASED FORMULATION FOR GOAT KIDS AND PROCESS OF PREPARATION THEREOF

(51) International classification :A23K0050100000, A47J0043046000, A61P0017000000, H04N0021472000, A23L0033160000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)Shalini Vaswani
 Address of Applicant :Department of Animal Nutrition, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

2)Mukul Anand
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Shalini Vaswani
 Address of Applicant :Department of Animal Nutrition, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

2)Mukul Anand
 Address of Applicant :Department of Veterinary Physiology, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

3)Deependra Chaudhary
 Address of Applicant :Department of Veterinary Physiology, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

(57) Abstract :

The present invention provides for a milk based formulation for goat kids from infancy to age of weaning that helps in improving kid's survival and promote kids growth. Further, the present invention provides for the milk based formulation for goat kids that is an alternate to goat milk, a high quality wholesome nutritional supplement, cost effective, affordable, easy to prepare and utilizes easily available local ingredients. Moreover, the present invention provides for a process for preparation of milk based formulation for goat kids.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009151 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : GOAT SEMEN EXTENDER FOR DILUTION AND CRYOPRESERVATION

(51) International classification :A01N0001020000, A61D0019020000, C12N0005076000, C12N0005071000, A61P0015080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mukul Anand

Address of Applicant :Department of Veterinary Physiology, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

2)Shalini Vaswani

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mukul Anand

Address of Applicant :Department of Veterinary Physiology, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

2)Shalini Vaswani

Address of Applicant :Department of Animal Nutrition, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

3)Sarvajeet Yadav

Address of Applicant :Department of Veterinary Physiology, College of Veterinary Sciences and Animal Husbandry, UP Pandit Deen Dayal Upadhyaya Pashu chekitsa Vigyan Vishwavidyalaya Evam Go Anusanthan Sanasthan Mathura -----

(57) Abstract :

The present invention provides for a goat semen extender for maintaining the viability and sperm character that prolong the fertility of spermatozoa (sperm) during liquid storage of spermatozoa. Particularly, the present invention provides a goat semen extender that provides better fertility rates. The said semen extender is efficient and easy to prepare. Further, the present invention provides a goat semen extender that is capable of improving the post thaw motility and viability of cryopreserved goat sperm.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009261 A

(19) INDIA

(22) Date of filing of Application :12/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC POSTURE CORRECTING CHAIR: IMPROVE YOUR POSTURE WHILE SEATED

(51) International classification :A47C1/00, A47C31/12, A47C7/46, A61B5/11, G08B21/24

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Ms. Bhawna Sachdeva
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

2)Ms. Sonam Sirohi
3)Dr. A.K. Dubey
4)Mr. Harvinder Jindal
5)Nishchay Adarsh

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Ms. Bhawna Sachdeva
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

2)Ms. Sonam Sirohi
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

3)Dr. A.K. Dubey
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

4)Mr. Harvinder Jindal
 Address of Applicant :Assistant Professor, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

5)Nishchay Adarsh
 Address of Applicant :Student, Greater Noida Institute of Technology, Plot No. 7, Knowledge Park – II, Greater Noida, Uttar Pradesh - 201306 -----

(57) Abstract :
 The present invention relates to automatic posture correcting chair (100): improve your posture while seated. The automatic posture correcting chair (100) : improve your posture while seated comprises a plurality of sensors, a central processing unit, adjustable unit, reminder mechanism, and power supply unit. The plurality of sensors is configured to detect the user's posture. The central processing unit is operationally connected with plurality of sensors is configured to determine whether the user's posture is correct or not. The adjustable unit is configured to provide a customizable fit for users of different body shapes and sizes. The reminder mechanism is configured that vibrates periodically to alert the user to maintain good posture. The power supply unit is powered by battery to ensure minimal power consumption.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202417007598 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BRIGHTNESS COMPENSATION METHOD AND APPARATUS, AND DEVICE AND MEDIUM

(51) International classification :G09G 3/3233, G09G 3/3225, G09G 3/20
(31) Priority Document No :202210668572.1
(32) Priority Date :14/06/2022
(33) Name of priority country :-----
(86) International Application No :PCT/CN2022/121913
Filing Date :27/09/2022
(87) International Publication No :WO 2023/240838
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)KUNSHAN GO-VISIONOX OPTO-ELECTRONICS CO., LTD.
Address of Applicant :Building 4, No.1, Longteng Road, Development Zone Kunshan, Jiangsu 215300 -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)WANG, Hongyu
Address of Applicant :Building 4, No.1, Longteng Road, Development Zone, Kunshan Suzhou, Jiangsu 215300 -----

2)HAN, Chong
Address of Applicant :Building 4, No.1, Longteng Road, Development Zone, Kunshan Suzhou, Jiangsu 215300 -----

(57) Abstract :

Disclosed in the present application are a brightness compensation method and apparatus, and a device and a medium. The brightness compensation method comprises: providing a plurality of first anchor points and at least one fixed anchor point in a display area of a display panel; dividing the display area of the display panel into a plurality of adjustment areas, wherein each adjustment area comprises at least one first anchor point, and determining a first compensation gain of each adjustment area in a grayscale image to be compensated for; according to a brightness value corresponding to a first anchor point, a brightness value corresponding to the fixed anchor point, and a first compensation gain of an adjustment area to which the first anchor point belongs, determining a second compensation gain corresponding to the first anchor point; and according to the second compensation gain, performing brightness compensation on a pixel corresponding to the first anchor point. By means of the embodiments of the present application, the display uniformity of a display panel can be improved.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009977 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR AN OIL EXPELLER WITH DUAL CHAMBERS

(51) International classification :B30B0009120000, A23L0033115000, C11B0001060000, F16H0057040000, C10L0001020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JB Institute of Technology

Address of Applicant :JB Institute of Technology, Dehradun, 23 Milestone, NH-07, Chakrata Rd, Shankarpur, Uttarakhand 248197, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Pradeep Kothiyal

Address of Applicant :JB Institute of Technology 23 mile stone, NH-7 shankerpur Chakrata road, Dehradun, Uttarakhand-248001 -

2)Dr. Bharat VPS Rawat

Address of Applicant :JB Institute of Technology 23 mile stone, NH-7 shankerpur Chakrata road, Dehradun, Uttarakhand-248001 -

(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR AN OIL EXPELLER WITH DUAL CHAMBERS This article describes an oil expeller with two chambers. The two chamber oil expeller is made up of a seed feeder, a support structure, two chambers and an interconnecting passage with two replaceable rings connecting the two chambers that are horizontally mounted on the support structure. A worm screw is placed inside the first chamber and the second chamber, and a gearbox with a thrust support shaft connecting to the proximal end of the first chamber. Compared to a single-chamber expeller, the oil expeller allows for a higher oil production because it presses the oil-bearing material twice. This is especially helpful for oilseeds that have higher oil content or tougher shells that need to be extracted more thoroughly.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009978 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR THERMOELECTRIC REFRIGERATOR USING SOLAR ENERGY

(51) International classification :H01L0035340000, F24F0005000000, H01L0035300000, F25B0021020000, F25B0027000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JB Institute of Technology

Address of Applicant :JB Institute of Technology, Dehradun, 23 Milestone, NH-07, Chakrata Rd, Shankarpur, Uttarakhand 248197, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Sumit Kumar

Address of Applicant :JB Institute of Technology 23 mile stone, NH-7 shankerpur Chakrata road, Dehradun, Uttarakhand-248001 -

2)Mr. Ujjwal Kumar

Address of Applicant :JB Institute of Technology 23 mile stone, NH-7 shankerpur Chakrata road, Dehradun, Uttarakhand-248001 -

(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR THERMOELECTRIC REFRIGERATOR USING SOLAR ENERGY This invention presents a novel strategy for environmentally friendly refrigeration technology. This method produces effective cooling without the use of fossil fuels or the grid by combining solar energy and thermoelectric modules. Through the Peltier effect, solar panels transform sunlight into electricity, which powers thermoelectric modules that produce cooling effects. Energy consumption is minimized and ideal temperature regulation is ensured via a sophisticated control system. The modules' heat is dispersed using heat exchangers, and insulation improves energy efficiency. Because of its portability and flexibility, the system can be used for a variety of purposes, such as outdoor activities and off-grid environments. This system provides a sustainable solution for refrigeration demands while lowering carbon emissions and encouraging environmental stewardship by utilizing solar energy and cutting-edge thermoelectric technology.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411009979 A

(19) INDIA

(22) Date of filing of Application :13/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A CYBER SECURITY SYSTEM FOR THE DETECTION INDUSTRIAL IOT DEVICE VULNERABILITIES

(51) International classification :G06F0021570000, G06N0020000000, G06F0021550000, H04L0067120000, H04L0043060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)JB Institute of Technology

Address of Applicant :JB Institute of Technology, Dehradun, 23 Milestone, NH-07, Chakrata Rd, Shankarpur, Uttarakhand 248197, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Suraj Sinha

Address of Applicant :JB Institute of Technology, Dehradun, PIN-248197 -----

2)Chhatra Pal Singh

Address of Applicant :JB Institute of Technology, Dehradun, PIN-248197 -----

3)Nandini Singh

Address of Applicant :JB Institute of Technology, Dehradun PIN-248197 -----

(57) Abstract :

ABSTRACT A CYBER SECURITY SYSTEM FOR THE DETECTION INDUSTRIAL IOT DEVICE VULNERABILITIES This study introduces a new Cyber Security System (CSS) for Industrial Internet of Things (IIoT) device vulnerability detection. IIoT systems are becoming more important in industry, yet cybersecurity concerns increase. Machine learning methods and anomaly detection are used in the CSS to identify IIoT device vulnerabilities. The CSS can quickly detect and mitigate security threats by monitoring network traffic, system behavior, and device interactions, strengthening industrial infrastructures. The system also provides real-time notifications and detailed reports to help administrators fix issues quickly. Through empirical evaluation, the CSS's effectiveness and efficiency in identifying and correcting IIoT device vulnerabilities illustrate its importance in protecting key industrial assets from cyber threats.

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202417008387 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN AGROCHEMICAL CONCENTRATE COMPOSITION

(51) International classification	:A01N 25/10, A01N 25/30, A01N 43/56, A01N 47/40
(31) Priority Document No	:2207511.3
(32) Priority Date	:23/05/2022
(33) Name of priority country	:-----
(86) International Application No	:PCT/GB2023/051344
Filing Date	:23/05/2023
(87) International Publication No	:WO 2023/227874
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)UPL MAURITIUS LIMITED
Address of Applicant :6th Floor, Suite 157B Harbor Front Building President John Kennedy Street Port Louis -----

2)UPL EUROPE LTD
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)WAGH, Pradip
Address of Applicant :UPL House, 610 B/2, Bandra Village, Off Western Express Highway Bandra East Mumbai 400 051 -----

2)PATIL, Rohit
Address of Applicant :UPL House, 610 B/2, Bandra Village, Off Western Express Highway Bandra East Mumbai 400 051 -----

3)BURTON, Robert
Address of Applicant :Brooklands Farm Cheltenham Road Evesham Worcestershire WR11 2LS -----

4)FLOOD, Charles
Address of Applicant :Brooklands Farm Cheltenham Road Evesham Worcestershire WR11 2LS -----

(57) Abstract :

The present disclosure relates to an agrochemical concentrate composition comprising a neonicotinoid insecticide and a diamide insecticide. The present disclosure also relates to a process for preparing the agrochemical concentrate composition and a method for controlling growth of insects/pests using the same.

No. of Pages : 54 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202417008388 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRODE ASSEMBLY, BATTERY, AND ELECTRIC DEVICE

(51) International classification :H01M 50/531
(31) Priority Document No :202110955883.1
(32) Priority Date :19/08/2021
(33) Name of priority country :-----
(86) International Application No :PCT/CN2022/113229
Filing Date :18/08/2022
(87) International Publication No :WO 2023/020568
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NINGDE AMPEREX TECHNOLOGY LIMITED
Address of Applicant :No. 1 Xingang Road, Zhangwan Town
Jiaocheng District Ningde, Fujian 352100 -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)HAO, Fei
Address of Applicant :No. 1 Xingang Road, Zhangwan Town
Jiaocheng District Ningde, Fujian 352100 -----

(57) Abstract :

An electrode assembly, a battery having the electrode assembly, and an electric device having the battery. The electrode assembly comprises a first electrode plate, a second electrode plate and an isolation film, wherein a first tab and a third tab are provided on the first electrode plate; a second tab is provided on the second electrode plate; and the electrode assembly is formed by winding the first electrode plate, the isolation film and the second electrode plate. The first tab comprises a first current collector and a first active material layer, the first active material layer being arranged on a surface of the first current collector to form a first coating area. The first tab and the third tab are arranged at an interval in the first coating area, the first coating area is divided into a first portion, a second portion and a third portion, and the length ratio of the first portion, the second portion and the third portion is 1 : (0.5-1.5) : (0.5-1.5), so that the resistance difference between the adjacent tabs is reduced, and the advantages of charging speed and temperature reduction are fully exploited, so as to achieve the goals of improving electrode assembly over-current capability and reducing electrode assembly temperature rise.

No. of Pages : 15 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202417006178 A

(19) INDIA

(22) Date of filing of Application :30/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING DIGITAL GOVERNANCE IN DIGITAL ECOSYSTEM

(51) International classification :A63F 13/45, G06Q
10/08

(31) Priority Document No :63/233068

(32) Priority Date :13/08/2021

(33) Name of priority country :-----

(86) International Application No :PCT/US2022/039891
Filing Date :10/08/2022

(87) International Publication No :WO 2023/018753

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SYBAL ENTERPRISES INC
Address of Applicant :5830 E 2nd St Suite 7000 #2017
Casper, Wyoming 82609 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)SANNI, Christine
Address of Applicant :5830 E 2nd St Suite 7000 #1752 Casper,
Wyoming 82609 -----

2)SANNI, Ikhelowa
Address of Applicant :5830 E 2nd St Suite 7000 #1752 Casper,
Wyoming 82609 -----

(57) Abstract :

A system for managing digital governance in a digital ecosystem is provided. The system includes data repository configured to maintain thereat at least policy library including policies and procedures used by enterprises; and at least one processor, The processor(s) is configured to: receive policy document(s) from policy library, policy document(s) is used by enterprise to which digital ecosystem belongs; receive digital event data indicating behavior of digital participants within digital ecosystem from target server associated with enterprise; generate a violation summary, based on policy document(s) and digital event data, wherein violation(s) is/are recorded when digital event data is non-compliant with policy document(s); determine policy effectiveness score(s), based on violation summary; determine compliance score(s), based on policy effectiveness score(s) determine governance score of digital ecosystem, based on compliance score(s); and communicate governance score to target server, for enabling enterprise in implementing action(s) for maintaining or improving digital governance in digital ecosystem.

No. of Pages : 39 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202417008101 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTROCHEMICAL DEVICE AND ELECTRONIC DEVICE

(51) International classification :H01M 10/0587
(86) International Application No :PCT/CN2021/106317
Filing Date :14/07/2021
(87) International Publication No :WO 2023/283835
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)NINGDE AMPEREX TECHNOLOGY LIMITED
Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)ZHOU, Weiyuan
Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----
2)LONG, Hai
Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----
3)DAI, Zhifang
Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----
4)ZHANG, Qingwen
Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 -----

(57) Abstract :

An electrochemical device and an electronic device. The electrochemical device comprises a cell (10) that is formed by winding a first pole piece (100), a diaphragm (200), and a second pole piece (300); the first pole piece (100) comprises: a current collector (110), a tab (120), and an active material layer (130); the current collector (110) comprises a first surface (111) facing the interior of the cell (10) and a second surface (112) facing away from the interior of the cell (10); the tab (120) is electrically connected to the current collector (110) and extends out of the current collector (110); the active material layer (130) is disposed on the first surface (111) and the second surface (112) of the current collector (110); the winding start end of the first pole piece (100) is configured as a single-sided area (101), the first surface (111) of the current collector (110) located in the single-sided area (101) is provided with an insulating coating (140), and the second surface (112) of the current collector (110) located in the single-sided area (101) is provided with the active material layer (130).

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : A PLUMBING ASSEMBLY

(51) International classification :B32B0005020000, A61P0029000000, A01N0043360000, A61P0035000000, A61Q0019100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

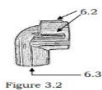
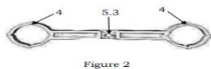
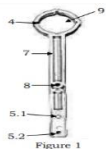
(71)Name of Applicant :
1)ORRIL POLYPLAST LLP
Address of Applicant :Survey No. 729 P 79 Morbi Rajkot Highway, Mitana, Tankara Morbi -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)MANOJ GODHANI
Address of Applicant :A-3/1102, Shilpan Onyx, Gangotri Park Main Road- 360005 RAJKOT -----

(57) Abstract :

ABSTRACT A PLUMBING ASSEMBLY The present invention relates to a plumbing assembly which provides a universal mixer adapter. Said invention is available in all sizes as per ASTM (American Society for Testing and Materials) standards such as 1/2, 3/4 and 1. Said universal mixer adapter is height adjustable and easy to install and maintain. Said plumbing assembly has elbow fixing grooves (4) which is configured in a way that the fixing ribs on the fitting elbow (6.2) can be easily fixed in the direction of the water inlet sources. Figure 1, 2 and 3.2



No. of Pages : 19 No. of Claims : 3

(54) Title of the invention : SYSTEM AND METHOD FOR SIMULATING QUANTUM MECHANICAL MODELS

(51) International classification :G06F0030200000, G06N0010000000, G06F0016242000, G05B0013040000, G06F0016248000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Indian Institute of Science Education and Research, Pune (IISER Pune)
 Address of Applicant :Dr. Homi Bhabha Road, Pashan, Pune - 411008, Maharashtra, India. Pune -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)VENKATNATHAN, Arun
 Address of Applicant :Department of Chemistry, IISER Pune, Pashan, Pune – 411008, Maharashtra, India. Pune -----

2)SIVA DEV, Rabin
 Address of Applicant :Department of Chemistry, IISER Pune, Pashan, Pune – 411008, Maharashtra, India. Pune -----

(57) Abstract :

The present disclosure relates to a system (110) and a method (400) for simulating quantum mechanical models. The system (110) may receive a set of input parameter values corresponding to a quantum mechanical model selected by a user (102), the quantum mechanical models include, but not limited to, particle in a 1-d box model, particle in a 2-d box model, particle on a ring model, quantum harmonic oscillator model, quantum rigid rotor model, and hydrogen atom model. The system (150) retrieves a set of equations associated with the selected quantum mechanical model and determines a set of output values by solving the retrieved equations with the set of input parameter values. The output values being generated using scaling, solving, and descaling one or more components in the retrieved equations to obtain the output values. The system (110) may generate a graphical representation of the set of output values.

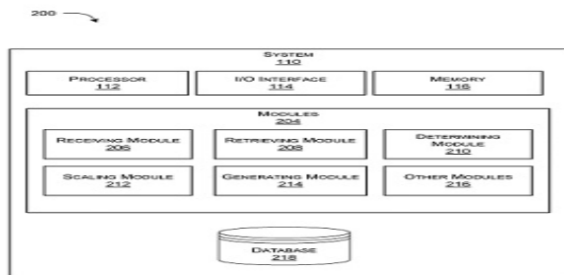


FIG. 2

No. of Pages : 46 No. of Claims : 17

(54) Title of the invention : SYSTEM AND METHOD FOR SIMULATION AND UNDERSTANDING EMBRYOLOGY

(51) International classification :A61B34/10, G06F17/50,
G06F30/20

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Immersivevision Technology Pvt. Ltd

Address of Applicant :S.NO 90/591/1, BLDG-'J', FL-1003 SILVER GARDENIA, RAVET-AUNDH B , PUNE-412101, Maharashtra India Pune -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amit Ranjan

Address of Applicant :S.NO 90/591/1, BLDG-'J', FL-1003 SILVER GARDENIA, RAVET-AUNDH B , PUNE-412101, Maharashtra India Pune -----

2)Amresh Kumar

Address of Applicant :106, Ornella Vasant Oasis, Old Borosil Glass Factory, Makwana Road, Marol, Andheri East, Mumbai-400059, Maharashtra ,India. Mumbai -----

3)Nitin Dongre

Address of Applicant :Perfect-10, B-1/604, Madhuban Society Road, Near Mitcon College, Balewadi, Pune-411045, Maharashtra,India Pune -- -----

4)Sneha Adsule

Address of Applicant :Amrapali building, Sudarshan Nagar lane no. 4, Pimple Gurav, Pune-411061,Maharashtra ,India. Pune -----

(57) Abstract :

SYSTEM AND METHOD FOR SIMULATION AND UNDERSTANDING EMBRYOLOGY The system (100) and method for simulation and understanding embryology, as compared to prior-arts, is capable to help understand embryology by simulation. System (100) and method includes a processing system (10) that has an interactive module (20) which receives selection of a user from a general embryology module (20a), a systemic embryology module (20b), a genetics module (20c), and a stem cells module (20d). The system (100) and method also includes a text module (30) to display text, an audio-video module (40) to play a three-dimensional simulation module (50) to allow simulation, a fetal surgery and intervention simulation module (60) and a comparative module (70) to allow comparison of fetal anatomical structures and physiology at different developmental stages of age to adults. (To be published with Figure 1)

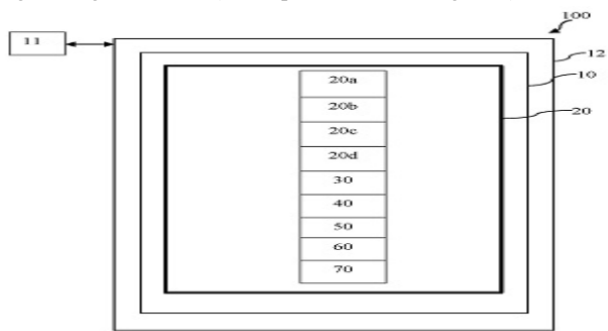


FIGURE 1

No. of Pages : 33 No. of Claims : 6

(54) Title of the invention : SIMULATION SYSTEM FOR VIRTUAL HUMAN-BODY DISSECTIONAND METHOD FOR SIMULATING VIRTUAL HUMAN-BODY DISSECTION

(51) International classification :A61B34/10, G06F3/01, G06G7/60, G09B23/28, G09B23/30, G16H20/40, G16H50/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Immersivevision Technology Pvt. Ltd
Address of Applicant :S.NO 90/591/1, BLDG-'J', FL-1003 SILVER GARDENIA,RAVET-AUNDH B,PUNE-412101,Maharashtra,India. Pune -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Navin Mandal
Address of Applicant :A 204, New Marigold Building No 4, Beverly Park, Near Cinemax, Mira Road East, Thane-401107, Maharashtra India. Thane -----

2)Amit Ranjan
Address of Applicant :S.NO 90/591/1, BLDG-'J', FL-1003 SILVER GARDENIA, RAVET-AUNDH B , PUNE-412101, Maharashtra India Pune -----

3)Amresh Kumar
Address of Applicant :106, Ornella Vasant Oasis, Old Borosil Glass Factory, Makwana Road, Marol, Andheri East, Mumbai-400059, Maharashtra ,India. Mumbai -----

4)Sneha Adsule
Address of Applicant :Amrapali building, Sudarshan Nagar lane no. 4, Pimple Gurav, Pune-411061,Maharashtra ,India. Pune -----

(57) Abstract :
SIMULATION SYSTEM FOR VIRTUAL HUMAN-BODY DISSECTION AND METHOD FOR SIMULATING VIRTUAL HUMAN-BODY DISSECTION
Thesimulation system (100) and methodfor simulating virtual human-body dissection, as compared to prior-arts,provides an accurate representation of human anatomical structures, allowing users to perform virtual dissections and gain tactile insights into the texture and feel of various organs, tissues and structures.Simulation system (100)includes a computing bed (10) with an interactive-display screen (20), a haptic device (30), a graphic rendering device (40), a control unit (50) and processing unit (51).The interactive-display screen (20) enables selection of a region-selection module (20a), a tool-selection module (20b), an anatomical planes and positions module (20c) and a training module (20d) which are operated and viewed by the haptic device (30), a graphic rendering device (40) to perform virtual dissections and gain tactile insights into the texture and feel. (To be published with Figure 1)

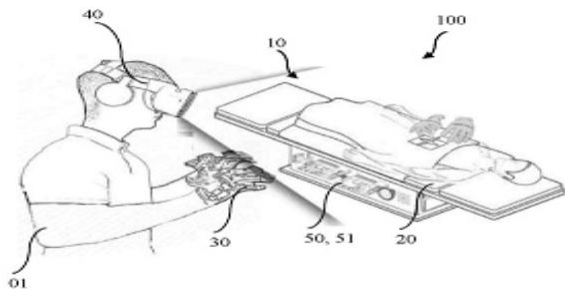


FIGURE 1

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321025539 A

(19) INDIA

(22) Date of filing of Application :04/04/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : APPARATUS AND METHOD FOR DETERMINING CORROSION OF ELECTRICAL COMPONENT IN FLUID

<p>(51) International classification :G01N17/00, G01N17/02, G01N17/04, G01N27/02, G01R19/25</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Bharat Petroleum Corporation Limited Address of Applicant :R&D Centre, Bharat Petroleum Corporation Limited, 'A' Installation, Sewree, Fort Road, Sewree (E), Mumbai - 400015, Maharashtra, India. Mumbai ----- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUMAR, Nikhil Address of Applicant :R&D Centre, Bharat Petroleum Corporation Limited, 'A' Installation, Sewree, Fort Road, Sewree (E), Mumbai - 400015, Maharashtra, India. Mumbai ----- 2)M, Rajendran Address of Applicant :R&D Centre, Bharat Petroleum Corporation Limited, 'A' Installation, Sewree, Fort Road, Sewree (E), Mumbai - 400015, Maharashtra, India. Mumbai -----</p>
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(57) Abstract :

The present disclosure provides an apparatus (100) and a method (300) for determining corrosion in an electrical component (190). The apparatus includes a container (102) configured to store a fluid; an attachment (104) configured to hold the electrical component; an electrode (110) coupled with the electrical component; and a computing device (200) configured to: receive signals indicative of electrical attributes of the electrical component for a period of time; determine a change in one or more electrical attributes of the electrical component; and determine, based on the changes in one or more electrical attributes, a corresponding change in one or more physical attributes of the electrical component. The corresponding change in one or more physical attributes of the electrical component is indicative of a corrosion of the electrical component over the period of time. The fluid may be at an elevated temperature.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321035746 A

(19) INDIA

(22) Date of filing of Application :23/05/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A MECHANISM FOR ROBOTIC PALLETIZING BY PRE-ALIGNING AND GRIPPING TECHNIQUE

<p>(51) International classification :B25J15/00, B65G57/30, B65G61/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Armstrong Machine Builders Private Limited Address of Applicant :Flat No. 101, Padmavishwas Orchid, Opp. Cricket Ground, Mahatma Nagar, Nashik, Maharashtra, India - 422007 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)MAJGAONKAR, Vineet Mohan Address of Applicant :Row House No. 6, S No 209/4 Plot No. 74 Sunshine Court, Central Avenue MH Kalyani Nagar, Pune, Maharashtra, India - 411006 -----</p> <p>2)MAJGAONKAR, Pranav Mohan Address of Applicant :303, Radhakrishna Apartment, Gangapur Road, Sawarkar Nagar, Nashik, Maharashtra, India -422103 -----</p>
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(57) Abstract :

The present invention is related to a mechanism for robotic palletizing by pre-aligning and gripping technique. Pneumatic cylinders operate the plates and tooth mechanism on the claw finger. To give support to the cylinder rod for smooth movement of the plates. To lock the state of the pneumatic cylinder, the solenoid coil is activated; thus, during carton placement on pallets, they do not disturb the other existing cartons. The saw is mounted on the movable plate, and the tooth is mounted on the cylinder rod. When the cylinder rod is operated, the tooth gets locked into the saw, so even when the plate cylinder solenoid coil is made ON, the cylinder cannot take the complete stroke, and the plate is locked at that point. The claw finger gives support to the carton from the bottom side.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321041180 A

(19) INDIA

(22) Date of filing of Application :16/06/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METAL-ORGANIC FRAMEWORK INCORPORATED HOLLOW FIBER MEMBRANE FOR RUBBER PROCESSING WASTEWATER TREATMENT

<p>(51) International classification :C02F0003120000, C02F0001000000, B01D0069080000, A61K0031166000, G01N0033574000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Sardar Vallabhbhai National Institute of Technology, Surat Address of Applicant :Ichchhanath Surat-Dumas Road, Surat - 395007, Gujarat, India. Surat -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GAJIPARA, Disha H. Address of Applicant :Master Student, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----</p> <p>----</p> <p>2)KALLA, Sarita Address of Applicant :Assistant Professor, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat ---</p> <p>-----</p> <p>3)MURTHY, Zagabathuni Venkata Panchakshari Address of Applicant :Professor (HAG), Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----</p> <p>----</p> <p>4)SONAWANE, Amol Vijay Address of Applicant :Research Scholar, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----</p> <p>----</p> <p>5)KACHHADIYA, Dipeshkumar Dineshbhai Address of Applicant :Research Scholar, Department of Chemical Engineering, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----</p> <p>----</p>
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(57) Abstract :

The present invention relates to the metal-organic framework (MOF) incorporated hollow fiber (HF) membrane. Specifically, the present invention relates to the method for the preparation of MOF incorporated HF membrane. Further, the MOF incorporated HF membrane is used for the treatment of rubber processing wastewater via membrane bioreactor (MBR). Also, the present invention provides a method for treatment of rubber processing wastewater using HF membrane that is cost-effective, recyclable, pollution-free, and environmentally friendly.

No. of Pages : 37 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321083199 A

(19) INDIA

(22) Date of filing of Application :06/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD OF NOVEL ELECTRONIC VOTING MACHINE

(51) International classification :G07C0013000000, G06Q0010100000, H04W0004140000,
C07C0004060000, G02B0003000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Sunita Sunil Shinde

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

2)Ms. Nilofar Shamshuddin Mulla

3)Mr. Mahesh Baburao Joshi

4)Ms. Madhubala Rajkumar Patil

5)Mr. Subodh S. Lande

6)Mr. Rohit B.Mane

7)Ms. Shital Shahaji Gavade

8)Ms. Rupali Ramesh Jagtap

9)Mr. Dipak Rangrao Patil

10)Ms. Madhura Makarand Raste

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sunita Sunil Shinde

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

2)Ms. Nilofar Shamshuddin Mulla

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

3)Mr. Mahesh Baburao Joshi

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

4)Ms. Madhubala Rajkumar Patil

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

5)Mr. Subodh S. Lande

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

6)Mr. Rohit B.Mane

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

7)Ms. Shital Shahaji Gavade

Address of Applicant :Nanasaheb Mahadik College of Engineering, Gat No. 894 / 2665, Pune - Banglore (NH4) Highway, Peth Naka, Walwa, Sangli. 415407 Maharashtra, India -----

8)Ms. Rupali Ramesh Jagtap

Address of Applicant :Padmabhushan Vasantdada Patil Institute of Technology, Sangli Tasgaon Rd, Budhgaon 416304 Maharashtra, India -----

9)Mr. Dipak Rangrao Patil

Address of Applicant :Rajarambapu Institute of Technology Rajaramnagar, Islampur, Walwa, Sangli 415414 Maharashtra, India -----

10)Ms. Madhura Makarand Raste

Address of Applicant :Padmabhushan Vasantdada Patil Institute of Technology, Sangli - Tasgaon Rd, Budhgaon 416304 Maharashtra, India -----

(57) Abstract :

The present invention relates to low-cost electronic voting system, which will eliminate rigging and manipulation of results to its barest minimum, this problem is mostly associated with the manual system of voting. The project can be extended by adding a GSM/WiFi module which eases the operation of voting by sending a simple SMS over the network or access through a webpage over the internet network.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202221041660 A

(19) INDIA

(22) Date of filing of Application :20/07/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : MULTI-UTILITY EQUIPMENT FOR CLEANING SURFACES WITH MULTIFACETED ASPECTS

(51) International classification :C11D0003040000, C11D0011000000, C11D0003370000, C11D0003382000, C11D0003430000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shubham Rajesh Pawar

Address of Applicant :Flat No 101, UB3/9, Ajmera Housing Society, Pimpri, Pune-411018 -----

2)Shubham Hemant Alhat

3)Sachin Ratnakar Deshmukh

4)Dr. Ratnakar Raghunath Ghorpade

5)Dr. Ganesh P. Borikar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shubham Rajesh Pawar

Address of Applicant :Flat No 101, UB3/9, Ajmera Housing Society, Pimpri, Pune-411018 -----

2)Shubham Hemant Alhat

Address of Applicant :Flat No.02, Shanti Kunj Apartment, Bramhan Ali, Rajgurunagar, Khed, Pune-410505 Pune -----

3)Sachin Ratnakar Deshmukh

Address of Applicant :B/5 -404, Mangal Bhairav of Nanded City, Sinhgad Road, Pune-411068 Pune -----

4)Dr. Ratnakar Raghunath Ghorpade

Address of Applicant :Sun Galaxy, Flat No.302, A-building, Near Old Toll Naka, Vadgaon Bk, S.N.54/1, Sinhgad Road, Pune-411041 Pune -----

5)Dr. Ganesh P. Borikar

Address of Applicant :Runwal Panorama, Bld.1/Flat 4, Near Warje Sports Complex, Mumbai-Banglore Bypass, Warje, Pune-411058 Pune -----

(57) Abstract :

Disclosed is Multiutility equipment for cleaning surfaces with multifaceted aspects. There are various cleaning equipments available in the industry. The current designs offer promising results when the geometric characteristics and the orientations of the surfaces are limited. The present invention proposes multi utility equipment which has its significance for the cleaning of varied surfaces including flat, convex, convex, double curved and surfaces with varied orientations like antigravitational surfaces, inclined surfaces to include a few but not limited to. The proposed invention utilizes perfect integration of mechanical, electrical, and electronics principles to ensure desired functioning and outcome of the equipment. Thus, the present invention offers a comprehensive solution to clean various surfaces while ensuring reliability, robustness and ease of operation for its application.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321080546 A

(19) INDIA

(22) Date of filing of Application :28/11/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A VISION-ACTUATED FEEDING ROBOTIC ARM SETUP FOR THE ELDERLY AND SPECIALLY-ABLED PEOPLE

(51) International classification :B25J0009160000, B25J0009100000, A61B0034300000, B25J0015000000, B25J0011000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)GUJARAT COUNCIL ON SCIENCE AND TECHNOLOGY
Address of Applicant :Block B, 7th Floor, M. S. Building, Nr. Pathikashram, Sector 11, Gandhinagar-382011, Gujarat, India Gandhinagar -----
2)INSTITUTE OF TECHNOLOGY, NIRMA UNIVERSITY
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Priyam Anilkumar Parikh
Address of Applicant :D-705, Stanza Apartment, Near Club O7, VIP Road, Shela, Ahmedabad-380058, Gujarat, India Ahmerdabad -----
2)Reena R. Trivedi
Address of Applicant :A-19, Dev City bungalows and Row Houses, RC Technical road, Ghatlodiya, Ahmedabad-380061, Gujarat, India Ahmerdabad -----
3)Naitik Hetalkumar Dalwadi
Address of Applicant :12, Laksh Township - 2, Opp. Akruti Nagar, Jitodia Road, Anand-388001, Gujarat, India Anand -----
4)Keyur Dineshchandra Joshi
Address of Applicant :F-202, Aditya Parivesh, Near Umadarshan bungalows, Behind Krishna Farm Party Plot, New SG Road, Daskroi, Ahmedabd-382481, Gujarat, India Ahmedabad -----
5)Kaushikkumar Mithabhai Patel
Address of Applicant :A7, Spatak Bunglows, Near Shukan Mall, Science City Road, Sola, Ahmedabad-380060, Gujarat, India Ahmedabad -----
6)Gohil Jigar Arjunbhai
Address of Applicant :6, Sunatar Society, Radhaswami Road, Ranip, Ahmedabad-382481, Gujarat, India Ahmedabad -----
7)Jatinkumar Maheshkumar Dave
Address of Applicant :12A, Shubhvilla Avadhपुरi, Nr. Homocopathic College, Bopal, Daskroi, Ghuma, Ahmedabad-380058, Gujarat, India Ahmedabad -----

(57) Abstract :

A semi-automatic feeding serial manipulator operates on command from user and brings food near face of user taking into consideration depth by synchronizing machine vision, robot kinematics, and robot positional control. It comprises of base plate(1), robotic arm(2), LCD display set(4), web-camera(5), food container(3), pushbutton(8) and control unit(7) along with switch mode power supply(6) configured to operate robotic arm(2), LCD display set(4) and web camera(5). The robotic arm(2) is consisting of base link (10), first link(17), second link(69), third link(73), fourth link(77), fifth link(81) and end-effector(85). Out of total seven location points of end effector(85) in Cartesian space, first six location points are fix locations independent of position of user and are identified by forward kinematics method whereas seventh location point dependent on position of user is identified on real time basis using inverse kinematics method. FIG. 11

No. of Pages : 52 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321084578 A

(19) INDIA

(22) Date of filing of Application :12/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SUSTAINABLE WASTE MANAGEMENT BY ZERO SOLID WASTE DISCHARGE (ZSWD).

<p>(51) International classification :B09B3/00, B09B3/70, C02F1/52, C02F9/00, C02F9/10</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mr. Rajdeepsinh V. Raol Address of Applicant :N.K. Enfab Technology Shed No. 22, Avadh Industrial Estate, Ramol Over bridge Road, Phase-4, GIDC, Vatva, Ahmedabad- 382445, Gujarat, India Ahmedabad --- ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Mr. Rajdeepsinh V. Raol Address of Applicant :N.K. Enfab Technology Shed No. 22, Avadh Industrial Estate, Ramol Over bridge Road, Phase-4, GIDC, Vatva, Ahmedabad- 382445, Gujarat, India Ahmedabad --- ----- 2)Prof(Dr.) Yadvendra K. Agrawal Address of Applicant :C/O Centre of Excellence in Macromolecules and Nanotechnology, School of Applied Sciences, L.J University, L.J College Road, Ahmedabad-382210, Gujarat, India Ahmedabad -----</p>
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(57) Abstract :

To prepare economical, environmentally friendly and significantly effective real time apparatus for unsegregated solid waste/sludge recovered from Zero liquid discharge system to convert it into a reusable wealthy chemical, particularly Sodium and potassium salts. Considering input material, processing yield will be around 90 to 95% and remaining organic carbon can be utilized as a raw material for Organic fertilizer. This features an Organic kiln, pulverizer, classifier, reactor, clarifier, micro filter and ATFD. Solid waste is passed through organic kiln at specific temperature at a fixed rate. Organic salt is converted into an insoluble form and inorganic is converted into a soluble form. This salt makes a solution in water and it is filtered which results as organic salt in solid form and inorganic salt in liquid form. This solution is passed through ATFD or any dryer which converts the solution in solid form to recover the inorganic salt.

No. of Pages : 18 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321083202 A

(19) INDIA

(22) Date of filing of Application :06/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGN AND DEVELOPMENT OF PRESSURE MEASURING SYSTEM APPLIED BY MEDICAL COMPRESSION BANDAGES USED FOR VENOUS LEG ULCER TREATMENT

<p>(51) International classification :A61F13/00, G06N3/08, G16H10/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kasegaon Education Societys Rajarambapu Institute of Technology, Sangli Address of Applicant :Rajaramnagar, Sakharale, Walwa, Islampur, Sangli 415414 Maharashtra, India ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pravin B. Desai Address of Applicant :House No. 414/1, F-1, Yash Empire Street Shaniwar Peth, Karad 415110 Maharashtra, India ----- --- 2)Dr. Sachin S. Patil Address of Applicant :House No.166/A, Street Yashoda, Near Old Vakale Vakhar, Market Yard, Islampur 415409 Maharashtra, India ----- ----- 3)Mrs. Vilabha Sachin Patil Address of Applicant :House No.166/A, Street Yashoda, Near Old Vakale Vakhar, Market Yard, Islampur 415409 Maharashtra, India ----- -----</p>
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(57) Abstract :

The present invention discloses a Pressure Measuring System integrated into medical compression bandages for Venous Leg Ulcer Treatment. The system employs sensors embedded within the bandage material, connected to a control unit displaying real-time pressure readings. Healthcare providers can adjust bandage tension based on these readings, ensuring optimal compression for effective treatment. The Pressure Measuring System for Medical Compression Bandages, presented in this study, embodies a revolutionary approach to venous leg ulcer treatment. This advanced system integrates sophisticated sensors within medical compression bandages, allowing real-time monitoring of pressure exerted during application. The accompanying handheld device interfaces with a Graphical User Interface (GUI) software, offering precise visualization and analysis of pressure data. Noteworthy features include a customizable calibration algorithm, facilitating personalized therapy based on individual patient parameters, and real-time pressure adjustment capabilities for optimal therapeutic outcomes. The system incorporates machine learning algorithms for predictive analysis and pressure mapping technology, enhancing practitioners' understanding of pressure distribution. Moreover, the integration of a pressure alarm system ensures immediate alerts for deviations from therapeutic ranges, enhancing patient safety. The versatility of this system extends to multi-layered bandages, offering independent pressure control for each layer. Additionally, remote monitoring capabilities enable healthcare providers to track patient progress and intervene promptly when necessary. This innovative Pressure Measuring System heralds a new era in compression therapy, ensuring precision, personalization, and safety in the treatment of venous leg ulcers

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : SYSTEM AND METHOD FOR HARVESTING WATER FROM ATMOSPHERIC AIR

(51) International classification	:B01D53/26, E03B3/28
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)Sardar Vallabhbhai National Institute of Technology, Surat
 Address of Applicant :Ichchhanath Surat-Dumas Road, Surat - 395007, Gujarat, India. Surat -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)KUMAR, Amit
 Address of Applicant :Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----
2)KUSHWAHA, Pravesh Kumar
 Address of Applicant :Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----
3)CHOUDHARY, Rajesh
 Address of Applicant :Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----
4)AGRAWAL, Anshu
 Address of Applicant :Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----

(57) Abstract :

The present disclosure relates to a system for harvesting water from atmospheric air, the system includes a desiccant wheel (104) with an adsorption sector, configured to receive atmospheric air, initiating a chemical dehumidification process leading to a reduction in air humidity ratio and an elevation of outlet air temperature. A set of evacuated tube solar air heaters (102) configured to absorb solar energy the set of evacuated tube solar air heaters configured to perform sensible heating of the air to obtain elevated temperatures, the heated air being subsequently directed to a regeneration sector of the desiccant wheel for the facilitation of the regeneration process. An air-to-air heat exchanger (106) is configured to receive and cool the moist regeneration air from the desiccant wheel, thereby lowering its temperature to its dew point resulting in the condensation of water vapor present in the air.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321087018 A

(19) INDIA

(22) Date of filing of Application :19/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATED LIQUID QUANTIFIER AND TRACKING DEVICE FOR RODENTS

(51) International classification :C25D0017000000, H01L0021670000, H01Q0001240000, B25J0011000000, C23C0014350000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BVDU's Poona College of Pharmacy

Address of Applicant :Bharati Vidyapeeth (Deemed to be) University, Paud Road, Erandwane, Pune 411038, Maharashtra, India Pune -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Yuvraj Pratap Singh

Address of Applicant :Department of Pharmaceutical Sciences, Bharati Vidyapeeth (Deemed to be) University, Poona College of Pharmacy, Erandwana, Pune 411038, Maharashtra, India Pune ----

2)Dr. Urmila Aswar

Address of Applicant :Department of Pharmacology, Bharati Vidyapeeth (Deemed to be) University, Poona College of Pharmacy, Erandwana, Pune 411038, Maharashtra, India Pune ----

3)Likhith Akotkar

Address of Applicant :Department of Pharmacology, Bharati Vidyapeeth (Deemed to be) University, Poona College of Pharmacy, Erandwana, Pune 411038, Maharashtra, India Pune ----

4)Atmaram Pawar

Address of Applicant :Department of Pharmaceutics, Bharati Vidyapeeth (Deemed to be) University, Poona College of Pharmacy, Erandwana, Pune 411038, Maharashtra, India Pune ----

5)Kundlik Rathod

Address of Applicant :Department of Pharmacology, Bharati Vidyapeeth (Deemed to be) University, Poona College of Pharmacy, Erandwana, Pune 411038, Maharashtra, India Pune ----

(57) Abstract :

Disclosed is a liquid quantifier and tracking device (100) for rodents. The device (100) comprises a rectangular housing having first zone (12) and a second zone (14). The device (100) further comprises a first bottle (16) having sucrose solution therein configured at end of the first zone (12) and a second bottle (18) having regular water configured at the end of the second zone (14) diagonally opposite to the first bottle (16). The device (100) further comprises sensors (20) for detecting movements of the rodents. The device (100) furthermore comprises at least one nozzle (22a, 22b) attached to each of the first bottle (16) and the second bottle (18). Specifically, the nozzle (22a, 22b) is provided with ball (16a) configured internally at the open end to arrest the flow of the liquid and is supported by a spring (16b).

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321014187 A

(19) INDIA

(22) Date of filing of Application :02/03/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A ONE-WAY CLUTCH WITH TAPER ROLLERS

(51) International classification :B60K17/00, B60K17/04,
F16D41/06, F16D41/067

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)TEXSPIN Bearings Limited

Address of Applicant :B-804, Shapath-4, Opp. Karnavati Club,
S.G.Highway, Ahmedabad, Gujarat - 380051, India. Ahmedabad -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MAKWANA, Vishal

Address of Applicant : TEXSPIN Bearings Limited, B-804,
Shapath-4, Opp. Karnavati Club, S.G.Highway, Ahmedabad,
Gujarat - 380051, India. Ahmedabad -----

(57) Abstract :

A one-way clutch 200 includes an outer body 202 with an inner periphery and a conical inner surface 204, a shaft 206 with a cylindrical outer surface 208, a plurality of taper rollers 210 disposed in a plurality of pockets 214 open towards the shaft 206, and a plurality of springs 216 configured to bias the plurality of taper rollers 210 in an axial direction towards a lower diameter side of the respective taper rollers 210. Further, a counter-clockwise rotation of the shaft 206, when viewed from bigger end side of the rollers 210, is blocked on account of tendency of the rollers 210 to move axially towards a narrower side of the conical inner surface 204 of the an outer body 202 due to rotation of the taper rollers 210 on the cylindrical outer surface of the shaft 206 and the biasing force from the springs 216.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321070409 A

(19) INDIA

(22) Date of filing of Application :17/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A QUADRUPED ROBOT FOR CLIMBING TELECOM TOWER

(51) International classification :B25J0009160000, B25J0011000000, B25J0019000000, B25J0009100000, H04J0003160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Institute of Technology, Nirma University
 Address of Applicant :Nirma University Sarkhej Gandhinagar Highway Ahmedabad Gujarat India Ahmedabad -----
 --
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Shivam Soni
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----
2)Devarshi P Dave
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----
3)Darshita J Shah
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway Ahmedabad Gujarat India 382481 Ahmedabad -----
4)Jatin M Dave
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----
5)Mihir M Chauhan
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----
6)Bharat A Modi
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----
7)Kaushik M Patel
 Address of Applicant :C/O. Institute of Technology, Nirma University, Sarkhej Gandhinagar Highway, Ahmedabad Gujarat India 382481 Ahmedabad -----

(57) Abstract :
 A QUADRUPED ROBOT FOR CLIMBING TELECOM TOWER The present invention relates a quadruped robot for climbing a telecom tower. Said robot can climb the telecom tower along with the payload. Each leg of the robot has 3 degree of freedom and the total degree of freedom of the robot is 12. Said robot has grippers (9), which holds the ladder rung and helps robot to climb the tower. Said robot has motors (12, 13 and 14) which helps to said links (10 and 11) to move the robot. Figure 2

No. of Pages : 34 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321082856 A

(19) INDIA

(22) Date of filing of Application :05/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A MAGENTIC GEAR INTEGRATED SWITCHED RELUCTANCE MOTOR

(51) International classification :H02K16/02, H02K19/02, H02K21/00, H02K49/10, H02K7/10, H02K7/116, H02P25/08, H02P25/092

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Indian Institute of Technology Bombay

Address of Applicant :Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India Mumbai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Saptarshi Dey

Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India Mumbai -----

2)Paschal Baylon Godfrey Fernandes

Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India Mumbai -----

3)Kishore Chatterjee

Address of Applicant :Department of Electrical Engineering, Indian Institute of Technology Bombay, Powai, Mumbai-400076, Maharashtra, India Mumbai -----

(57) Abstract :

ABSTRACT A MAGENTIC GEAR INTEGRATED SWITCHED RELUCTANCE MOTOR The disclosure herein generally relates to electric motor with integrated magnetic gear and more particularly, to a switched reluctance motor integrated with a reluctance magnetic gear. The magnetic gear integrated switched reluctance motor (100) includes a stator (102), a first rotor (104) having a plurality of metal segments (104S), and a second rotor (106) having at least one magnetic pole piece pair (106P). The stator and the first rotor are configured to electromagnetically interact to act as switched reluctance motor, and the second rotor is configured to magnetically interact with the first rotor and the stator to generate a gearing effect to achieve high speed motoring. The multiport motor (100) is compact, has reduced number of permanent magnet pieces, easy to assemble, and cost effective. Fig. 1

No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321088603 A

(19) INDIA

(22) Date of filing of Application :25/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : POLYHERBAL LOZENGES FOR TREATMENT OF THROAT INFECTION

(51) International classification :A61K0009000000, A61K0045060000, A61K0009200000, A61P0031140000, A61P0011040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Bharat Bhimrao Jadhav

Address of Applicant :Dwarkadhish Sai Nagari, Nagthane, Satara 415519 Maharashtra, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Bharat Bhimrao Jadhav

Address of Applicant :Dwarkadhish Sai Nagari, Nagthane, Satara 415519 Maharashtra, India -----

(57) Abstract :

The present invention discloses the polyherbal formulation in the form of lozenges for treating throat infection. The said lozenges are in the form of hard candy lozenges comprising mixtures of sugar, water and herb extract. The polyherbal formulation is used for treating throat infection, symptomatic relief of runny nose, itchy or watery eyes, wheezing, throat irritation and inflammation.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321088604 A

(19) INDIA

(22) Date of filing of Application :25/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : CULTURAL STUDIES IN COMPARATIVE LITERATURE WITH THE HELP OF COMPUTING DEVICES

(51) International classification :G06F0011140000, C12Q0001680000, G09B0005060000, G06F0016174000, E21B0047180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Bharat Bhimrao Jadhav

Address of Applicant :Dwarkadhish sai nagari, Nagthane, Satara 415519 Maharashtra, India -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Bharat Bhimrao Jadhav

Address of Applicant :Dwarkadhish sai nagari, Nagthane, Satara 415519 Maharashtra, India -----

(57) Abstract :

The present invention relates to Culture orientation which is an important feature of comparative literature with the help of computing devices. Comparative literature was born from culture orientation. Culture orientation is an important feature of comparative literature. Expansion of empire is important because culture seems to be behind the hybrid. If it look at human culture from very ancient times, it see that there have been many battles in terms of empire expansion.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321067175 A

(19) INDIA

(22) Date of filing of Application :06/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A 2D POLYMERIC NETWORK OF ZINC ORGANOPHOSPHATE WITH 8-MEMBERED RING CORE

(51) International classification :A61K0008240000, C07F0003000000, C07C0041300000, C10N0030000000, A61K0008270000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Sardar Vallabhbhai National Institute of Technology, Surat

Address of Applicant :Ichchhanath Surat-Dumas Road, Surat - 395007, Gujarat, India. Surat -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KUMAR, Shubham

Address of Applicant :Department of Chemistry, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----

2)JANGIR, Ritambhara

Address of Applicant :Department of Chemistry, Sardar Vallabhbhai National Institute of Technology, Ichchhanath, Surat - 395007, Gujarat, India. Surat -----

(57) Abstract :

The present invention relates to a zinc phosphate complex. More particularly, the present invention relates to a method for the single step development of 2D polymeric network of zinc organophosphate with 8-membered ring core. Formation of such 2D networks does not require any connecting ligand, since the involved monoester ligand has two phosphate groups that are participating in coordination and further extend the network. Also, the present invention relates to a method for synthesizing a new organophosphate ligand i.e. 3,3',5,5'-tetramethyl-[1,1'- biphenyl]-4,4'-diyl bis(dihydrogen phosphate) having extended aromatic rings with methyl groups at ortho positions and two phosphate monoester groups. Thus, the present invention provides an unprecedented and green route to develop the biocompatible and environmentally benign framework structure with Zinc metal salts.

No. of Pages : 39 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202321072151 A

(19) INDIA

(22) Date of filing of Application :22/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SLURRY OR JIVAMRUT FILTRATION SYSTEM, PROCESS OF PREPARING AND APPLICATION THEREOF

(51) International classification :C05F0003000000, A01C0023000000, A01C0023020000, H01M0004139000, A01C0003020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Green Nectar Agritech

Address of Applicant :CTS No 256 Shivaji Road, Manmad, Nashik Maharashtra 423104 Nashik -----

2)Mr. Satish Patil

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Satish Patil

Address of Applicant :7, Pritam Society, Ram Nagar, Nashik Maharashtra 422013 Nashik -----

(57) Abstract :

35 ABSTRACT A Slurry or Jivamrut filtration system, Process of preparing and Application thereof The present invention is in the field of Agriculture and composting of natural/organic liquid manure and fertilizers. More particularly, the invention relates to a slurry or Jivamrut rapid filtration system (100) to filter liquid compost manure that could be slurry, jivamrut, or liquid fertilizer. The invention further relates to a method for producing liquids slurry manure or liquid insecticides, pesticides and fungicides with consistency in terms of both composition and microns using the slurry/ Jivamrut filtration system utilizing rapid filtration technology. The invention furthermore relates to a slurry/Jivamrut prepared by said method using said slurry filtration system. The invention also relates to a method of improving health or productivity of selected plant or crop, wherein conditioning the soil comprises applying the slurry/Jivamrut prepared by said method using the slurry/Jivamrut filtration system.

No. of Pages : 104 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327054977 A

(19) INDIA

(22) Date of filing of Application :16/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : PAYMENT SERVICE PROVIDER INTEROPERABILITY FOR DIGITAL PAYMENTS

(51) International classification	:G06Q 20/38, G06F 21/33, G06F 21/62, G06F 21/64, G06Q 20/02	(71)Name of Applicant : 1)CRUNCHFISH DIGITAL CASH AB Address of Applicant :Crunchfish AB Stora Varvsgatan 6A 4TR 211 19 Malmö -----
(31) Priority Document No	:2150159-8	Name of Applicant : NA
(32) Priority Date	:12/02/2021	Address of Applicant : NA
(33) Name of priority country	:-----	(72)Name of Inventor :
(86) International Application No	:PCT/SE2022/050152	1)SAMUELSSON, Joachim
Filing Date	:11/02/2022	Address of Applicant :Drottninggatan 77 254 33 Helsingborg -----
(87) International Publication No	:WO 2022/173360	-----
(61) Patent of Addition to Application Number	:NA	2)CRONHOLM, Paul
Filing Date	:NA	Address of Applicant :Crunchfish AB Stora Varvsgatan 6A 4TR 211 19 Malmö -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A computerized method (100) of performing a digital payment of a payment amount (Amount) between a payer (P1) and a payee (P2) provides payment service provider interoperability. A payer communication device (PD1) and a payee 5 communication device (PD2) communicate (112) by short-range data communication during an offline settlement stage (110) to generate payment transaction data (Transaction Data) being digitally signed (114) by the payer communication device (PD1). The generated payment transaction data (Transaction Data) is validated (116) by the payee communication device (PD2). The method further has an online settlement 10 stage (130) during which the payment transaction data (Transaction Data) is communicated (132) to a computerized payment network switch (NW) that validates (136) the payment transaction data (Transaction Data), and communicates (142) with a first payment service provider (PSP1) to cause a deduction of funds from a payer account (account_P1) and an addition of funds to a payee account (account_P2), 15 corresponding to the payment amount (Amount). Elected for publication:

No. of Pages : 33 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421000902 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTONOMOUS ROBOTIC HONEYBEE HIVE RETRIEVING MACHINE FOR SAFE AND EFFICIENT EXTRACTION IN NATURAL ENVIRONMENTS

(51) International classification :A01K0047060000, A01K0047000000, A01K0057000000, A01K0053000000, A01K0047020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Nishant Ghode

Address of Applicant :Mamta Nagar, Street Number 03, New Khandelwal Colony, Rajnandgaon, Chhattisgarh 491441 -----

2)Mrs. Kalpna Ghode

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Nishant Ghode

Address of Applicant :Mamta Nagar, Street Number 03, New Khandelwal Colony, Rajnandgaon, Chhattisgarh 491441 -----

2)Mrs. Kalpna Ghode

Address of Applicant :Mamta Nagar, Street Number 03, New Khandelwal Colony, Rajnandgaon, Chhattisgarh 491441 -----

(57) Abstract :

This invention describes an autonomous Robotic Honeybee Hive retrieval machine for remotely controlled honeybee hive retrieval with advanced robotic capabilities. At its core lies an adjustable antenna-based structure, providing access to hives at various elevations. Intelligent algorithms empower the machine to proactively assess hive locations and potential obstacles. The heart of this invention is a versatile container unit, ingeniously designed to securely encase the hive, thus preventing bee-related accidents. To ensure a safe retrieval process, smoke is released within the container, briefly disorienting the bees. Bees are then directed into an inflatable bag via a one-way tube, preventing their return to the container. Ultimately, a precision cutter within the container gently detaches the hive from its anchoring surface, allowing for its safe removal. This technology offers a sustainable solution, minimizing risks to humans and by temporarily disorienting and safely containing bees during retrieval, it minimizes stress and harm to the bees.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421000917 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVELOPMENT OF A SIMPLE METHOD TO SCREEN BIOACTIVITY OF HERBAL DRUGS USING FTIR SPECTRAL SCAN

(51) International classification :G01N0021350000, F04B0049020000, G16B0020300000, G16B0005000000, H04N0001405000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Mr. Jagtap Suresh Dnyandeo

Address of Applicant :Department of Herbal Medicine, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune, Satara Road Pune 411046 Maharashtra, India -----

2)Mr. Khavate Manoj Mahavir

3)Mr. Pawar Sunil Ganpatrao

4)Mrs. Pawar Sushama Sunil

5)Mr. Chikane Dipesh Ramdas

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Jagtap Suresh Dnyandeo

Address of Applicant :Department of Herbal Medicine, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune, Satara Road Pune 411046 Maharashtra, India -----

2)Mr. Khavate Manoj Mahavir

Address of Applicant :Department of Herbal Medicine, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Pune, Satara Road Pune 411046 Maharashtra, India -----

3)Mr. Pawar Sunil Ganpatrao

Address of Applicant :Department of Botany, Yashwanrao Mohite College of Arts, Science and Commerce, Bharati Vidyapeeth (Deemed to be University), Pune, Erandawane, Poud Road, Pune 411038 Maharashtra, India -----

4)Mrs. Pawar Sushama Sunil

Address of Applicant :Department of Zoology, Yashwanrao Mohite College of Arts, Science and Commerce, Bharati Vidyapeeth (Deemed to be University), Erandawane, Pune, Satara Road Pune 411038 Maharashtra, India -----

5)Mr. Chikane Dipesh Ramdas

Address of Applicant :Department of Plant Biotechnology, Rajiv Gandhi Institute of Information Technology and Biotechnology, Bharati Vidyapeeth (Deemed to be) University, Pune, Satara Road Pune 411046 Maharashtra, India -----

(57) Abstract :

This application focuses on using FTIR spectra and a linear regression model to predict the bioactivity values of compounds, particularly in the context of herbal drug research. The model demonstrates strong fitting with high R-squared and adjusted R-squared values. When fed with FTIR spectra, it produces numerical 10 predictions of the antioxidant potential, aiding herbal drug screening. The output includes numerical values, such as R-squared, adjusted R-squared, predicted antioxidant potentials, and error distribution visualization. These numerical results are invaluable for quantitative assessment, offering efficiency and cost effectiveness in herbal medicine, pharmaceuticals, and quality control. Researchers and practitioners can optimize drug development and screening while reducing costs and time investments.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001019 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : EFFICIENT PRIVACY-PRESERVING PUBLIC AUDITING SYSTEM FOR CLOUD COMPUTING WITH ENHANCED SECURITY AND REDUCED EXECUTION TIME '

(51) International classification :G06F0021620000, H04L0009320000, E05B0027000000, G10L0017240000, H04L0009300000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR. KIRAN SHRIMANT KAKADE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR. KIRAN SHRIMANT KAKADE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----

2)DR. JAYANT BRAHMANE
 Address of Applicant :SGPC'S GURU NANAK INSTITUTE OF MANAGEMENT STUDIES, UNIVERSITY OF MUMBAI , MUMBAI - -----

3)DR. PRAMOD PANDURANG NANDARDHANE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----

4)PROF. ANJALI M. KULKARNI
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----

5)DR. NANASAHEB M. HALGARE
 Address of Applicant :M.S. BIDVE ENGINEERING, COLLEGE , LATUR 413512 -----

6)DR. PRADNYA BHANDARE
 Address of Applicant :INDUS BUSINESS SCHOOL -IIEBM, WAKAD-MARUNJE, ROAD, OFF MUMBAI-BANGALORE HIGHWAY, WAKAD, PUNE, MAHARASHTRA 411057 -----

7)PROF. DEEPA UJJWAL MISHRA
 Address of Applicant :ASSISTANT PROFESSOR MIT SCHOOL OF COMPUTING MIT ART DESIGN AND TECHNOLOGY UNIVERSITY, RAJBAUG, LONI KALBHOR PUNE -----

-

(57) Abstract :
 This study delves into cloud computing, a technology leveraging dispersed networks for computational and storage needs. The Internet facilitates easier data access and recovery. Service providers can expand storage capacity. Security is paramount in distributed systems, with cryptography safeguarding data from unauthorized access. Cloud computing enables unlimited data storage and resource utilization across multiple systems. This work introduces a privacy-preserving public auditing system, boasting reduced execution time compared to existing methods. It emphasizes data privacy, efficient resource utilization, and enhanced security in cloud-based operations.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001021 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED SYSTEM FOR ADVANCED INTRUSION DETECTION AND PREVENTION USING DEEP LEARNING TECHNIQUES.

(51) International classification :G06N0003080000, G06N0003040000, G06F0021620000, G06F0021550000, G08B0013196000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR. KIRAN SHRIMANT KAKADE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)DR. KIRAN SHRIMANT KAKADE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----
2)DR. SHAILENDRAKUMAR KALE
 Address of Applicant :MARATHWADA MITRAMANDAL'S COLLEGE OF ENGINEERING, DEPARTMENT OF MBA, CTS NO.205, VADAR VASTI RD, BEHIND VANDEVI TEMPLE, KARVE NAGAR, PUNE, MAHARASHTRA 411052 -----
3)DR. JAYANT BRAHMANE
 Address of Applicant :SGPC'S GURU NANAK INSTITUTE OF MANAGEMENT STUDIES, UNIVERSITY OF MUMBAI , MUMBAI - -----
4)PROF. ANJALI M. KULKARNI
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----
5)PROF. SUBHASH YADAV
 Address of Applicant :SGPC'S GURU NANAK INSTITUTE OF MANAGEMENT STUDIES, UNIVERSITY OF MUMBAI , MUMBAI - -----
6)DR PRAMOD PANDURANG NANDARDHANE
 Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. -----
7)DR. SULAKSHANA BHAUSAHEB MANE
 Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NAVI MUMBAI, SECTOR-7, CBD, BELAPUR, NEAR KHARGHAR, RAILWAY STATION, NAVI MUMBAI-400614 -----

(57) Abstract :
 This invention addresses critical vulnerabilities in computer networks and proposes an assessment technique for Intrusion Detection Systems (IDS) to fortify network security. Evaluating IDS components and leveraging deep neural networks, it aims to effectively categorize diverse intrusion attempts. Despite dataset challenges, the study uses the KDD Cup database, highlighting problems and potential solutions. Utilizing TensorFlow, the research develops a highly accurate deep learning architecture for IDS, reducing training time significantly. It emphasizes the future potential of real-time intrusion detection, discussing its benefits and drawbacks, emphasizing its crucial role in minimizing intrusion harm. The study not only conducts intrusion detection but also proposes the future inclusion of preventative measures within intrusion prevention systems, showcasing their autonomous threat counteraction beyond tracking and reporting. This work aims to bolster network security by proactively addressing threats, ultimately advancing intrusion detection and prevention systems.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421000168 A

(19) INDIA

(22) Date of filing of Application :02/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A PHARMACEUTICAL COMPOSITION OF VENLAFAXINE HYDROCHLORIDE FOR NASAL ADMINISTRATION

(51) International classification :A61K31/137, A61K47/10, A61K47/18, A61K47/26, A61K47/38, A61K9/00, A61K9/08, A61P25/24

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gangane Purushottam Shridhar

Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur Nagpur -----

2)Thool Mandar Anil

3)Sawarkar Harigopal Shalimar

4)Kohale Nitin Bapurao

5)Chaudhary Pankaj Haribhau

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gangane Purushottam Shridhar

Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur Nagpur -----

2)Thool Mandar Anil

Address of Applicant :Dadasaheb Balpande College of Pharmacy, Besa, Nagpur Nagpur -----

3)Sawarkar Harigopal Shalimar

Address of Applicant :Dr. Rajendra Gode College of Pharmacy, University-Mardi road, Amravati Amravati -----

4)Kohale Nitin Bapurao

Address of Applicant :Shri Swami Samarth Institute of Pharmacy, Parsodi road, Dhamangaon Railway Dhamangaon Railway -----

5)Chaudhary Pankaj Haribhau

Address of Applicant :P. R. Pote Patil College of Pharmacy, Kathora Road, Amravati Amravati -----

(57) Abstract :

A pharmaceutical composition of venlafaxine hydrochloride for nasal administration The present invention relates to a pharmaceutical composition of venlafaxine hydrochloride for nasal administration and a process for its preparation. The present invention further relates to a pharmaceutical composition of venlafaxine hydrochloride for brain targeted delivery via the intranasal route for the effective management of depression.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002007 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PLANT HEALTH AND YIELD GROWTH USING IOT - SMART AGRICULTURE FARM

(51) International classification :G06Q0050020000, A01G0025160000, G06T0007000000, A01G0009240000, G01N0033000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. SHIVRAJ SHANKAR PATALE
 Address of Applicant :PROFESSOR, BOTANY, SMT. SHANTABAI KANTILAL GANDHI ARTS, AMOLAK SCIENCE AND PANALAL HIRALAL GANDHI COMMERCE COLLEGE KADA TQ. ASHTI DIST. BEED, MAHARASHTRA-414202, INDIA Beed -----

2)Ms. VAISHALI UTTAM BHALERAO
3)Mr. VISHWAS POPAT JAYBHAY
4)Mr. SUSHIL KALYAN AHIWALE

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. SHIVRAJ SHANKAR PATALE
 Address of Applicant :PROFESSOR, BOTANY, SMT. SHANTABAI KANTILAL GANDHI ARTS, AMOLAK SCIENCE AND PANALAL HIRALAL GANDHI COMMERCE COLLEGE KADA TQ. ASHTI DIST. BEED, MAHARASHTRA-414202, INDIA Beed -----

2)Ms. VAISHALI UTTAM BHALERAO
 Address of Applicant :RESEARCH STUDENT, BOTANY, SMT. SHANTABAI KANTILAL GANDHI ARTS, AMOLAK SCIENCE AND PANALAL HIRALAL GANDHI COMMERCE COLLEGE KADA TQ. ASHTI DIST. BEED, MAHARASHTRA-414202, INDIA Beed -----

3)Mr. VISHWAS POPAT JAYBHAY
 Address of Applicant :RESEARCH STUDENT, BOTANY, SMT. SHANTABAI KANTILAL GANDHI ARTS, AMOLAK SCIENCE AND PANALAL HIRALAL GANDHI COMMERCE COLLEGE KADA TQ. ASHTI DIST. BEED, MAHARASHTRA-414202, INDIA Beed -----

4)Mr. SUSHIL KALYAN AHIWALE
 Address of Applicant :RESEARCH STUDENT, BOTANY, SMT. SHANTABAI KANTILAL GANDHI ARTS, AMOLAK SCIENCE AND PANALAL HIRALAL GANDHI COMMERCE COLLEGE KADA TQ. ASHTI DIST. BEED, MAHARASHTRA-414202, INDIA Beed -----

(57) Abstract :
 ABSTRACT Plant health and Yield growth using IoT - Smart Agriculture farm Smart agriculture is a rapidly growing field that utilizes technological solutions to improve plant health and increase yield growth. One of the key components of smart agriculture is the use of Internet of Things (IoT) devices in farming practices. These devices collect data from the farm environment and provide real-time information to farmers, enabling them to make better decisions and optimize their farming operations. One of the main benefits of IoT in smart agriculture is its ability to constantly monitor plant health. IoT devices, such as sensors and cameras, can collect data on key parameters such as soil moisture, temperature, and nutrient levels. This data is then processed and analyzed using artificial intelligence (AI) algorithms to provide actionable insights to farmers. For example, if the sensors detect low soil moisture levels, the AI system can automatically trigger irrigation systems to water the crops, ensuring optimal growth and preventing plant stress. Moreover, IoT devices can also help in detecting plant diseases and pests at an early stage. This is done by using specialized sensors that can identify changes in plant health based on data such as leaf color, size, and growth rate. By detecting these issues early on, farmers can take preventive measures, such as applying pesticides or adjusting nutrient levels, to avoid crop damage and yield loss. In addition to plant health, IoT devices can also improve yield growth by optimizing farming practices. For instance, by analyzing data on weather patterns and soil conditions, the AI system can make recommendations on the best time to plant, fertilize, and harvest crops. This can help farmers increase their yield and improve the efficiency of their farming operations. Another advantage of using IoT devices in smart agriculture is the ability to remotely monitor and control farm operations. Farmers can use their smartphones or computers to access real-time data and make adjustments to their farming practices, even when they are away from the farm. This reduces the need for manual labor and saves time and resources. In conclusion, the use of IoT in smart agriculture has a significant impact on plant health and yield growth. By providing real-time data and insights, IoT devices enable farmers to make more informed decisions and optimize their farming practices. This not only improves the overall efficiency and productivity of the farm but also promotes sustainable and environmentally friendly farming practices.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : A STABLE AQUEOUS ETODOLAC COMPOSITION FOR PARENTERAL ADMINISTRATION

(51) International classification :A61K47/06, A61K47/10, A61K47/34, A61K9/08, A61P29/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Acropolis Institute of Pharmaceutical Education and Research

Address of Applicant :Manglia Square, Indore, Madhya Pradesh, India, Pin code-453771 -----

2)Mr. Ravi Sharma**3)Dr. Sweta S Koka****4)Ms. Sunidhi Sharma**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sweta S Koka

Address of Applicant :Associate Professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

2)Mr. Ravi Sharma

Address of Applicant :Assistant professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

3)Mr. Ashish Gupta

Address of Applicant :Associate professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

4)Ms. Devshree Gayakwad

Address of Applicant :Assistant Professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

5)Ms. Shraddha Mahajan

Address of Applicant :Assistant Professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

6)Ms. Sunidhi Sharma

Address of Applicant :Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

7)Mr. Yashraj Yadav

Address of Applicant :Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

8)Ms. Saloni Yadav

Address of Applicant :Assistant professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -----

9)Dr. Praveen Kumar Sharma

Address of Applicant :Professor, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -

10)Dr. G.N. Darwhekar

Address of Applicant :Director, Acropolis Institute of Pharmaceutical Education and Research, Manglia Square, Indore, Madhya Pradesh, India, Pin code- 453771 -

(57) Abstract :

The present invention provides a stable aqueous etodolac composition, comprising: etodolac in the range of 25 mg / ml to 50 mg / ml, water for injection; and formulation materials selected from ethanol, propylene glycol, sodium acetate, sodium benzoate and polyvinylpyrrolidone-K-30. The aqueous etodolac composition of present invention is stable, clear and colorless for use in parenteral administration. In the aqueous etodolac composition of present invention, etodolac is soluble in the solution in concentration from 25 mg/ml to 50 mg/ml without any precipitation.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001431 A

(19) INDIA

(22) Date of filing of Application :08/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ADVANCED MULTI-GENERATION VAPOUR COMPRESSION ABSORPTION REFRIGERATION SYSTEM (V-CARS)

<p>(51) International classification :F25B0049020000, F01D0015100000, F02C0009180000, G05B0015020000, F25B0025020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. ROHIT PANDEY Address of Applicant :ASSISTANT PROFESSOR, ATLAS UGDx SCHOOL OF TECHNOLOGY, ATLAS SKILLTECH UNIVERSITY, MUMBAI-400070, INDIA -----</p> <p>2)MR. ABHISHEK KUMAR 3)MS. SHYAMAPRIYA CHATTERJEE 4)MR. RAWAL DIGANJIT 5)DR. PRAMOD G. MUSRIF 6)DR. DHEERAJ KUMAR 7)DR. T. SHAAFI 8)RAKESH KUMAR 9)MR. ASHISH KUMAR 10)DR. ABHISHEK PRIYAM 11)DR. AVISANKAR ROY 12)DR. TILAK MUKHERJEE</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. ROHIT PANDEY Address of Applicant :ASSISTANT PROFESSOR, ATLAS UGDx SCHOOL OF TECHNOLOGY, ATLAS SKILLTECH UNIVERSITY, MUMBAI-400070, INDIA -----</p> <p>2)MR. ABHISHEK KUMAR Address of Applicant :NATIONAL INSTITUTE OF TECHNOLOGY NAGALAND, DIMAPUR, NAGALAND, PIN- 797103 -----</p> <p>3)MS. SHYAMAPRIYA CHATTERJEE Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF INFORMATION TECHNOLOGY, NARULA INSTITUTE OF TECHNOLOGY, KOLKATA, WEST BENGAL - 700109 -----</p> <p>4)MR. RAWAL DIGANJIT Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, NATIONAL INSTITUTE OF TECHNOLOGY, KARNATAKA, INDIA -----</p> <p>5)DR. PRAMOD G. MUSRIF Address of Applicant :AISSMS, INSTITUTE OF INFORMATION TECHNOLOGY, SHIVAJINAGAR, PUNE 411001 -----</p> <p>6)DR. DHEERAJ KUMAR Address of Applicant :POST DOCTORAL FELLOW, DEPARTMENT OF MECHANICAL ENGINEERING INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD-826004, JHARKHAND, INDIA -----</p> <p>7)DR. T. SHAAFI Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SAVEETHA SCHOOL OF ENGINEERING, SAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES, TIRUVALLUR, CHENNAI, TAMIL NADU, 602105 -----</p> <p>8)RAKESH KUMAR Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD-826004 JHARKHAND, INDIA -----</p> <p>9)MR. ASHISH KUMAR Address of Applicant :PHD SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD-826004 JHARKHAND, INDIA -----</p> <p>10)DR. ABHISHEK PRIYAM Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, SVKM'S NMIMS MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT AND ENGINEERING, MUMBAI, INDIA -----</p> <p>11)DR. AVISANKAR ROY Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, WEST BENGAL, 721607 -----</p> <p>12)DR. TILAK MUKHERJEE Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING (ECE), HALDIA INSTITUTE OF TECHNOLOGY, HALDIA, WEST BENGAL, 721657 -----</p>
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(57) Abstract :
A system (100) is an advanced multi-generation vapour compression absorption refrigeration system comprises a vapour compression refrigeration an evaporator (102) comprising low pressure and temperature feed into the compressor (104) comprising pressure and temperature. The system (106) may also include a condenser comprising heat and condenses refrigerant. The system (108) may also include an expansion valve comprising reduces pressure and condenses refringent. The system (110) may also include a flow back to evaporator comprising a repeat cycle. The system (112) may also include a generator for absorption refrigeration comprising desorbs refrigerant using heat. The system (114) may also include an evaporator comprising multiple temperatures and absorbs heat. The system (116) may also include an absorber. The system (118) may also include a pump comprising a transports refrigerant and releases heat. The system (120) may also include a flow back to generator connection comprising a repeat cycle.

No. of Pages : 20 No. of Claims : 10

(54) Title of the invention : A NOVEL MODIFIED EQUIPMENT FOR THE RAPID ISOLATION OF GUM FROM A WIDE VARIETY OF NATURAL POLYSACCHARIDES OF SEEDS

<p>(51) International classification :A47J41/02, A61M1/00, A61M5/142, B01D29/085, B01F27/90, C08B37/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Nitin Hindurao Salunkhe Address of Applicant :Adarsh College of Pharmacy, Bhavani-nagar, Kundal Raod, Vita-415311 -----</p> <p>2)Dr. Kailas Krishnat Mali 3)Ms. Prerna Hemant Sidwadkar 4)Dr. Niranjan Shishir Mahajan 5)Mr. Vijay Bapu Metkari 6)Mr. Abhishek Sanjiv Aundhakar 7)Mr. Rohit Dilip Gaikwad 8)Mr. Ali Gausamahammad Tabib 9)Mr. Saurabh Mahadev Ingawale 10)Ms. Kavita Mangilal Pareek 11)Ms. Akanksha Vidyadhar Gade 12)Mr. Anuja Arun Gaikwad Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Nitin Hindurao Salunkhe Address of Applicant :Adarsh College of Pharmacy, Bhavani-nagar, Kundal Raod, Vita-415311 -----</p> <p>2)Dr. Kailas Krishnat Mali Address of Applicant :Associate professor, Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra,India. Vita -----</p> <p>3)Ms. Prerna Hemant Sidwadkar Address of Applicant :Assistant Professor, Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p> <p>4)Dr. Niranjan Shishir Mahajan Address of Applicant :Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. Mob.- 7755900896 Vita -----</p> <p>5)Mr. Vijay Bapu Metkari Address of Applicant :Assistant Professor, Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. Vita -----</p> <p>6)Mr. Abhishek Sanjiv Aundhakar Address of Applicant :Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. Vita -----</p> <p>7)Mr. Rohit Dilip Gaikwad Address of Applicant :Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. Vita -----</p> <p>8)Mr. Ali Gausamahammad Tabib Address of Applicant :Department of pharmaceutics, Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p> <p>9)Mr. Saurabh Mahadev Ingawale Address of Applicant :Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p> <p>10)Ms. Kavita Mangilal Pareek Address of Applicant :Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p> <p>11)Ms. Akanksha Vidyadhar Gade Address of Applicant :Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p> <p>12)Mr. Anuja Arun Gaikwad Address of Applicant :Adarsh College of Pharmacy, Vita A/P- 421/2,Near MIDC, Kambale(Bha.) Vita-415311 Tal-Khanapur, Dist- Sangli, Maharashtra ,India. vita -----</p>
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(57) Abstract :

This invention relates to equipment may be used in the different industries like polymer, herbal, and pharmaceutical for the rapid isolation of gum or mucilage from a wide range of natural polysaccharides or seeds.

No. of Pages : 15 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001529 A

(19) INDIA

(22) Date of filing of Application :09/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD FOR SYNTHESIZING GOLD NANOPARTICLES FROM PLANT POPULUS CILIATA

(51) International classification :A61K0036185000, G01N0033569000, A61P0031040000, C09D0005020000, A61K0036850000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Gayatri Motiram Polakhare

Address of Applicant :Lecturer, Department of Pharmacy, Dr. Rajendra Gode Institute of Pharmacy, Amravati - 444602, Maharashtra, India Amravati -----

2)Akash Shrikrishna Malthankar

3)Pratiksha Prabhakar Yawalkar

4)Gaurav Gautam Manwar

5)Vaishnavi Suresh Kalamb

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Gayatri Motiram Polakhare

Address of Applicant :Lecturer, Department of Pharmacy, Dr. Rajendra Gode Institute of Pharmacy, Amravati - 444602, Maharashtra, India Amravati -----

2)Akash Shrikrishna Malthankar

Address of Applicant :Assistant Professor, Department of Quality Assurance, Dr. Rajendra Gode College of Pharmacy, Amravati – 444602, Maharashtra, India Amravati -----

3)Pratiksha Prabhakar Yawalkar

Address of Applicant :Assistant Professor, Department of Quality Assurance, Dr. Rajendra Gode Institute of Pharmacy, Amravati – 444602, Maharashtra, India Amravati -----

4)Gaurav Gautam Manwar

Address of Applicant :Assistant Professor, Department of Quality Assurance, Vardhaman College of Pharmacy, Koli, Karanja (Lad) - 444105, Maharashtra, India Karanja -----

5)Vaishnavi Suresh Kalamb

Address of Applicant :Assistant Professor, Department of Quality Assurance, Oriental University, Indore - 453555, Madhya Pradesh, India Indore -----

(57) Abstract :

Gold nanoparticles (GNPs) were prepared using four different plant extracts as reducing and stabilizing agents. The extracts were obtained from the following plants: Salvia officinalis, Lippia citriodora, Pelargonium graveolens and Punica granatum. The size distributions of the GNPs were measured using three different methods: dynamic light scattering, nanoparticle-tracking analysis and analysis of scanning electron microscopy images. The three methods yielded similar size distributions. Biocompatibility was examined by correlation of L-cell growth in the presence of different amounts of GNPs. All GNPs showed good biocompatibility and good stability for over 3 weeks. Therefore, they can be used for imaging and drug-delivery applications in the human body. High-resolution transmission electron microscopy was used to view the shapes of the larger GNPs, while infrared spectroscopy was employed to characterize the various functional groups in the organic layer that stabilize the particles. Finally, active ingredients in the plant extract that might be involved in the formation of GNPs are proposed, based on experiments with pure antioxidants that are known to exist in that plant.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002014 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MACHINE LEARNING-BASED INTRUSION DETECTION AND PREVENTION SYSTEM FOR IOT ENVIRONMENTS

(51) International classification :G06N002000000, G06F0021550000, G06F0021600000, H04L0067120000, G06N0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Priyanka V. Deshmukh

Address of Applicant :Chandravir Apartment, Sonal Colony, Shegaon-Rahatgaon Road, Amravati -----

2)Akash J. Wadate

3)Dr. S. P. Deshpande

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Akash J. Wadate

Address of Applicant :Research Scholar, PG Department of Computer Science and Technology, HVPM, Amravati Amravati --

2)Dr. S. P. Deshpande

Address of Applicant :Principal, Department of Computer Science and Technology, HVPM, Amravati Amravati -----

(57) Abstract :

The Internet of Things (IoT) has witnessed exponential growth in recent years, transforming the way we interact with technology. However, this rapid expansion has also exposed IoT ecosystems to an increased risk of cyber-attacks. In response to these threats, we present a novel approach for Attack Detection and Prevention in IoT Environments using machine learning techniques. Our research focuses on developing a robust classifier system, designed to identify and thwart malicious activities within IoT networks. Leveraging the power of machine learning, our system analyzes vast amounts of data generated by IoT devices, detecting anomalies and identifying attack patterns. This patent application encompasses a systematic review of existing IoT attack detection and prevention methods, highlighting their advantages and limitations. We delve into the phases of IoT botnet attacks and various attack scenarios within IoT environments, shedding light on the challenges faced in securing these ecosystems. Our primary objectives are to conduct state-of-the-art IoT attack research, employ diverse datasets for effective attack detection and prevention, and develop a prototype as a proof of concept. Our state-of-the-art approach captures attacker patterns, evaluating extracted data for intrusion detection and prevention effectiveness. Furthermore, we compare the performance of various machine learning models using standard classifier metrics, providing insights into the most efficient methods for safeguarding IoT networks. In summary, our invention offers a cutting-edge solution to enhance the security of IoT environments, paving the way for a safer and more secure future in the IoT landscape.

No. of Pages : 14 No. of Claims : 6

(54) Title of the invention : EXAMINE THE ANTIHYPERGLYCEMIC, ANTI-HYPERLIPIDEMIC AND ANTIOXIDANT POTENTIAL OF SIDA CORDIFOLIA ALCOHOLIC EXTRACT IN STREPTOZOTACIN INDUCED DIABETES IN WISTAR RATS

(51) International classification :A61P0003100000, A61K0036185000, A61P0003060000, A61B0005000000, G01N0033500000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. R.C. Mishra
 Address of Applicant :Vice Chancellor, Mahakaushal University, Aithakheda, Mukunwara Road, Tilwara, Jabalpur, Madhya Pradesh. Pin code:- 482003 -----

2)Miss. Rakhi Rani
3)Mr. Abhay Kumar Mishra
4)Mr. Surendra Kumar
5)Mr. Krishna Chandra Panda
6)Mr. Vincet Srivastava
7)Prof. Dr. Rajesh Kumar Dubey
8)Dr. Atiya Akhtar Khan
9)Mrs. Sakshi Aole
10)Dr. Akhilesh Kumar Singhai
11)Dr. Ashutosh Padhan
12)Mr. Ashutosh Meher

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. R.C. Mishra
 Address of Applicant :Vice Chancellor, Mahakaushal University, Aithakheda, Mukunwara Road, Tilwara, Jabalpur, Madhya Pradesh. Pin code:- 482003 -----

2)Miss. Rakhi Rani
 Address of Applicant :Assistant Professor, Department of Pharmacy, Sai Nath University, Chandway, Kuch Road, Jirabar, Ormanjhi, Jharkhand. Pin code:- 835219 -----

3)Mr. Abhay Kumar Mishra
 Address of Applicant :Assistant Professor, Department of Pharmacology, Government Pharmacy College, Ragarganj, Maharajganj, Siwan, Bihar. Pin code:- 841238 -----

4)Mr. Surendra Kumar
 Address of Applicant :Research Scholar, Department of Pharmacy, Mahakaushal University, Aithakheda, Mukunwara Road, Tilwara, Jabalpur, Madhya Pradesh. Pin code:- 482003 -----

5)Mr. Krishna Chandra Panda
 Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, Roland Institute of Pharmaceutical Sciences, Berhampur, Ganjam, Odisha. Pin code:- 760010 -----

6)Mr. Vincet Srivastava
 Address of Applicant :Assistant Professor, Department of Pharmacology, Faculty of Pharmacy, United University, Prayagraj, Uttar Pradesh. Pin code:- 211012 -----

7)Prof. Dr. Rajesh Kumar Dubey
 Address of Applicant :Director, UGC-Human Resource Development Centre (UGC-HRDC), JNV University, Central Office, J N Vyas University, Residency Rd, Air Force Area, Jodhpur, Rajasthan. Pin code:- 342011 ----

8)Dr. Atiya Akhtar Khan
 Address of Applicant :Assistant Professor, Department of Pharmacognosy, College of Pharmacy, King Khalid University (KKU), Abha, Asir, Saudi Arabia. Pin code:- 62529 -----

9)Mrs. Sakshi Aole
 Address of Applicant :Student (M.Pharm), School of Pharmacy, LNCTU, Near J K. Hospital, Kolar Road, Bhopal, Madhya Pradesh. Pin code:- 462041 -----

10)Dr. Akhilesh Kumar Singhai
 Address of Applicant :Director, School of Pharmacy, LNCTU, Near J K. Hospital, Kolar Road, Bhopal, Madhya Pradesh. Pin code:- 462041 -----

11)Dr. Ashutosh Padhan
 Address of Applicant :Professor, Department of Pharmaceutics, The Pharmaceutical College, Samaleswari Vihar, Tingipali, Barpali, Bargarh, Odisha. Pin code:- 768029 -----

12)Mr. Ashutosh Meher
 Address of Applicant :Principal, Department of Pharmacognosy, Rajib Lochan Hota College of Pharmacy, Maheswari Vihar, Mahada, Barpali, Bargarh, Odisha. Pin code:- 768029 -----

(57) Abstract :
 [051] This invention proposes a groundbreaking approach to assess the therapeutic potential of Sida Cordifolia alcoholic extract in the context of diabetes management. Through systematic experimentation using the Streptozotocin-induced diabetes model in Wistar rats, this research rigorously evaluates the extract's antihyperglycemic, anti-hyperlipidemic, and antioxidant properties. By bridging traditional herbal knowledge with modern scientific methodologies, it seeks to validate age-old wisdom and explore the natural remedy's potential in addressing the complexities of diabetes. The comprehensive research design encompasses biochemical assays, histopathological examinations, and statistical analyses, ensuring the reliability and robustness of the findings. This invention holds promise for enhancing diabetes care by offering an alternative, holistic approach that complements existing treatments. If successful, it may inspire the integration of Sida Cordifolia and similar natural substances into mainstream medical practice, ultimately improving the quality of life for individuals living with diabetes. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002059 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGN THINKING BASED DEEP LEARNING MODELS FOR EARLY AND ACCURATE DETECTION OF HIP CANCER

<p>(51) International classification :A61F0002360000, A61P0035000000, A61P0035020000, A61F0002300000, A61F0002320000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Prof. Venkat Namdev Ghodke Address of Applicant :Assistant Professor, Electronics and Telecommunication Engineering, AISSMS Institute of Information Technology Pune, Maharashtra ----- 2)Dr Mamta Pathak 3)Dr.M.Tamilselvi 4)Dr. M Purushotham Reddy 5)Dr. P. Ezhilarasi 6)Dr.Sandeep Kumar Hegde 7)Asst.Prof.Nivedya S.Nair Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prof. Venkat Namdev Ghodke Address of Applicant :Assistant Professor, Electronics and Telecommunication Engineering, AISSMS Institute of Information Technology Pune, Maharashtra ----- 2)Dr Mamta Pathak Address of Applicant :Assistant Professor, Journalism and Mass Communication, IIMT College of Management, Gautam Buddha Nagar, Greater Noida, Uttar Pradesh ----- 3)Dr.M.Tamilselvi Address of Applicant :Assistant Professor, Computer Science And Engineering, Roever Engineering College, Perambalur, Tamilnadu ----- 4)Dr. M Purushotham Reddy Address of Applicant :Professor, Information Technology, Institute of Aeronautical Engineering, medchal malkajagiri, Hyderabad, Telangana ----- 5)Dr. P. Ezhilarasi Address of Applicant :Professor, ECE, St. Joseph's College of Engineering, Chennai-119, Kanchipuram Chennai Tamilnadu ----- 6)Dr.Sandeep Kumar Hegde Address of Applicant :Associate Professor, NITTE Deemed to be University, Department of Computer Science and Engineering,NMAM Institute of Technology, Affiliated to Nitte (Deemed to be University) Nitte Udupi,Karnataka, India, Pincode-574110 ----- 7)Asst.Prof.Nivedya S.Nair Address of Applicant :Assistant professor, Department of Management,Tilak education society's J K college of science and commerce Ghansoli, Navi Mumbai,Ghansoli, Maharashtra -----</p>
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(57) Abstract :
ABSTRACT DESIGN THINKING BASED DEEP LEARNING MODELS FOR EARLY AND ACCURATE DETECTION OF HIP CANCER A method foOr the development of a hip implant patients had similar rates of most cancers as the general population. Although the excesses in melanoma, multiple myeloma, and prostate and bladder cancers may be due to chance, confounding, or detection bias and should be interpreted with caution, they require additional examination given to the growing usage of hip implants at younger ages. The Standardized Morbidity Ratio (SMR) for all cancer sites, regardless of length of follow-up, was 0.96 (95% CI 0.90 to 1.03). For lymphoma and leukemia, the SMR was 0.89 (0.68 to 1.14). Our findings contradict prior reports of an increased risk of leukemia and lymphoma following total hip replacement. The leukemia rate of patients who had metal-on-metal total hip arthroplasty was 3.77 times higher than that of patients who had polyethylene-on-metal total hip arthroplasty, although the difference was not statistically significant. FIG.1

No. of Pages : 12 No. of Claims : 1

(54) Title of the invention : INVESTIGATION, FORMULATION AND EVALUATION OF ANTIDIABETIC EFFECT OF HERBAL PLANT

(51) International classification :A61K0036185000, A61P0003100000, A61K0036470000, A61P0009100000, A61G0012000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Mr. Amol Dilip Ghodke
 Address of Applicant :Assistant Professor, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

2)Dr. Dipak Vikram Bhusari
3)Miss. Meena Vilas Bhalke
4)Mr. Dhiraj Ramesh Kayande
5)Miss. Pallavi Purushottam Petkar
6)Miss. Vaishnavi Rajaram Mankar
7)Miss. Pragati Mangesh Bodade
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mr. Amol Dilip Ghodke
 Address of Applicant :Assistant Professor, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

2)Dr. Dipak Vikram Bhusari
 Address of Applicant :Associate professor, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

3)Miss. Meena Vilas Bhalke
 Address of Applicant :Assistant Professor, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

4)Mr. Dhiraj Ramesh Kayande
 Address of Applicant :Assistant Professor, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

5)Miss. Pallavi Purushottam Petkar
 Address of Applicant :Research Scholar, Rajarshi Shahu College of Pharmacy Buldana 443001 Maharashtra, India -----

6)Miss. Vaishnavi Rajaram Mankar
 Address of Applicant :Shri Gurudata Shikshan Prasarak Sansthans Institute Of Pharmacy, Akola 44004 Maharashtra, India -----

7)Miss. Pragati Mangesh Bodade
 Address of Applicant :Karmayogi Tatya Saheb Bondre Institute of Pharmacy Chikhli 443201 Maharashtra, India -----

(57) Abstract :
 The present invention relates to Investigate, Formulate & Evaluate Antidiabetic Effect of pomegranate. Further invention relates to improve patient care and safety in relation to the use of herbal medicines. Another invention relates to process for preparation of anti-diabetic formulation of pomegranate

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002436 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CEMENT MORTAR PLASTERING MACHINE

(51) International classification : E04F21/08, E01C19/42, E04F21/00,
E04F21/02, E04F21/16, E04F21/24
(86) International Application No.:NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Muzammil Mehabub Bepari

Address of Applicant :133/1 E Ward Sadar Bazar Near Hotel Woodies -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Muzammil Mehabub Bepari

Address of Applicant :Assistant Professor, Department of Mechanical Engineering,
Bharati Vidyapeeth's College Of Engineering, Kolhapur Kolhapur -----

2)Somesh Arun padalkar

Address of Applicant :707 D ward rege tikt kumbhar galli kolhapur 416002
Kolhapur -----

3)Pranay Shivaji Gadgil

Address of Applicant :887 'A' Ward, Ingvale galli, Shivaji Peth, Kolhapur.
Kolhapur -----

4)Yunus Hasan Shaikh

Address of Applicant :731/2 block no 46, jui nagar near sambhaji nagar stand,
Kolhapur Kolhapur -----

5)Abidali meharali makandar

Address of Applicant :Block no 24 shree extension mohite colony salokhe nagar
Kolhapur Kolhapur -----

6)Sachin Krishnat Pisal

Address of Applicant :Sanjeevan Engineering and Technology Institute, Panhala
Kolhapur -----

7)Mohammadasim Asaphalli Mullani

Address of Applicant :Dr. D. Y. Patil pratishthan's college of Engineering
Salokhenagar Kolhapur Kolhapur -----

8)Dr. Shailaja Sanjay Mohite

Address of Applicant :Mechatronics Engineering Department, Rajarambapu
Institute of Technology, Islampur, Dist. Sangli Sangli -----

9)Amrut Pandurang Bhosale

Address of Applicant :Mechatronics Engineering Department, Rajarambapu
Institute of Technology, Islampur, Dist. Sangli Sangli -----

10)Vaseemkhan Ilaikhhan Pathan

Address of Applicant :Proprietor Aaliimra Technologies, Near Lishan Hotel,
Kolhapur 416001 Kolhapur -----

11)Nitishkumar Patil

Address of Applicant :Undergraduate Student, Bharati Vidyapeeth's College of
Engineering, Kolhapur. Kolhapur -----

12)Pratik Ghodake

Address of Applicant :Undergraduate Student, Bharati Vidyapeeth's College of
Engineering, Kolhapur. Kolhapur -----

(57) Abstract :

The present invention focuses on fabricating a cement mortar plastering machine designed to revolutionize the traditional and contemporary techniques employed in the construction industry. The motivation behind this initiative arises from the limitations associated with existing technologies, such as manual plastering and automatic plastering machines. The construction sector faces challenges related to time-consuming processes, a shortage of skilled labour, escalating labour costs, and the need for technological advancements. The proposed mechanized plastering machine aims to address these challenges by introducing automation to the plastering process. The key objectives include creating a lightweight, cost-effective, and easily deployable structure for the application. This innovation aligns with the dynamic landscape of construction automation, offering a solution that enhances efficiency and overcomes the limitations of traditional plastering methods.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002483 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FITTECHPRO: BOOSTS FITNESS ACTIVITY

(51) International classification :A23L0033000000, G16H0020300000, A61B0005000000, G16H0020600000, A63B0022060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Amol Vikas Joshi

Address of Applicant :Plot no 29 Dena Nagar Bhusawal -----

2)Dr. Mukund Patil

3)Jitendra N Wadadkar

4)Mohit C Sonawane

5)Harshal Bhavsar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Amol Vikas Joshi

Address of Applicant :Plot no 29 Dena Nagar Bhusawal -----

2)Dr. Mukund Patil

Address of Applicant :At Post Tapat Kathora Tal Bhusawal Dist Jalgaon Jalgaon -----

3)Jitendra N Wadadkar

Address of Applicant :Plot no 78 Laxmi Narayan Nagar Bhusawal Bhusawal -----

4)Mohit C Sonawane

Address of Applicant :Plot no 7, Shivdatt Nagar Near yallammamata Temple, Bhusawal Bhusawal -----

5)Harshal Bhavsar

Address of Applicant :Serve no 27, Plot no 4A, Bahinabai Colony, Jalgaon Jalgaon -----

(57) Abstract :

The term fitness describes a person's level of physical and mental health together. Having the energy and stamina to enjoy your daily activities and live a healthy life is just as important as having a six-pack or being able to run a marathon. Greater than fifty methods are available to exercise and get fit such as Gym, Yoga, Running, Cycling, Meditation etc. This research focuses on burning extra calories in body by exercising daily cycling in plane or hill area to get weight loss. In market there are maximum numbers of app available to show how many calories burn by todays exercising, in addition to that these applications don't gives conversion or rate of weight loss in how many days by burning extra calories. This application gives how many days required to reduce weight by burning extra calories with the help of daily cycling in one hour with regular diet.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002641 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ALOE FISH SCALE DRESSING FOR WOUND MANAGEMENT

(51) International classification :A61K0036886000, A61K0036896000, A61L0015400000, A61F0013000000, A61L0015180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Anant Kumar V Shekokar

Address of Applicant :Professor and HOD, Dept. of Shalya Tantra, S.V.N.H.T. Ayurveda Magavidalaya, Rahuri, Maharashtra 413706, India Rahuri -----

2)Dr. Kanchan A. Shekokar

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Anant Kumar V Shekokar

Address of Applicant :Professor and HOD, Dept. of Shalya Tantra, S.V.N.H.T. Ayurveda Magavidalaya, Rahuri, Maharashtra 413706, India Rahuri -----

2)Dr. Kanchan A. Shekokar

Address of Applicant :Associate Professor, Dept. of Shalya Tantra, S.V.N.H.T. Ayurveda Magavidalaya, Rahuri, Maharashtra 413706, India Rahuri -----

(57) Abstract :

The Aloe Fish Scale Dressing is a wound dressing composition designed to address the prevalent challenges of wound management, particularly in developing countries. Combining the therapeutic properties of Rohu fish scales and Aloe Vera pulp, the dressing offers a cost-effective and technically straightforward solution for promoting optimal wound healing. The carefully curated method of preparation ensures the purity and efficacy of the dressing, with key ingredients providing collagen, Vitamin C, anti-inflammatory, antibacterial, and antioxidant properties. Notably, the dressing's sustained release capabilities contribute to prolonged therapeutic effects. With its emphasis on affordability, accessibility, and effectiveness, the Aloe Fish Scale Dressing presents a promising avenue for advancing wound care in resource-constrained regions.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002061 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INNOVATIONS IN CUSTOMER RELATIONSHIP MANAGEMENT (CRM): A PATENT RESEARCH PERSPECTIVE

(51) International classification :G06Q0030020000, G06Q0010060000, H04L0009320000, G06Q0030000000, G16H0010600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Pushpa Gore
 Address of Applicant :Asst. Professor, Hotel Management, Institute Of Hotel Management, MGM University, Aurangabad,Maharastra -----

2)Dr. Kapilesh Mangal
3)Dr. Sarika Kadam Shelke
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Pushpa Gore
 Address of Applicant :Asst. Professor, Hotel Management, Institute Of Hotel Management, MGM University, Aurangabad,Maharastra -----

2)Dr. Kapilesh Mangal
 Address of Applicant :Asst. Professor, Hotel Management, Institute Of Hotel Management, MGM University, Aurangabad,Maharastra -----

3)Dr. Sarika Kadam Shelke
 Address of Applicant :Associate Professor,Computer Science, Dr. G.Y. Pathrikar College Of Computer Science And Information Technology, MGM University,Aurangabad,Maharastra -----

(57) Abstract :
 ABSTRACT INNOVATIONS IN CUSTOMER RELATIONSHIP MANAGEMENT (CRM): A PATENT RESEARCH PERSPECTIVE A method for the development of an information management system includes a blockchain infrastructure configured to maintain a blockchain for one or more smart contracts generated for one or more assets managed by the information management system, and one or more application programming interfaces configured to provide access to the one or more smart contracts of the blockchain, allowing input of data to a given smart contract for a given asset and retrieval of data from the given smart contract of the A call intelligence record is generated based on the identified individual and the subject matter, which is then automatically entered into the information system. The program can also contain a vehicle alert database, which gathers car records from multiple extraction databases. The procedures may include determining the service type of a service that caused an issue during provisioning. An error handler can be chosen based on the service type. A graphical representation of the expected outcome is generated based on one or more metrics-related criteria, and it is shown in the user interface alongside a graphical representation of one or more recurring revenue assets. FIG.1

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002076 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGN AN INTELLIGENT SURVEILLANCE AND NIGHT PATROLLING USING DRONE

(51) International classification :B64C0039020000, G06Q0050260000, G08B0013196000, H04N0007180000, G06F0021620000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. K. Sujatha
 Address of Applicant :Associate Professor, Department of AI&DS Engineering, Shree Ramchandra College of Engineering, Pune, Maharashtra, India -----
2)Mr. N.Dilip Kumar
3)Mrs. S.Hemalatha
4)Dr. Sailesh Iyer
5)Dr. Nithyanantham Sampathkumar
6)Telagamalla Gopi
7)Dr. M.L.Ravi Chandra
8)Dr. Kazi Kutubuddin Sayyad Liyakat
9)Mrs. M.Shanthalakshmi
10)Ms. M. V. B. T.Santhi
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. K. Sujatha
 Address of Applicant :Associate Professor, Department of AI&DS Engineering, Shree Ramchandra College of Engineering, Pune, Maharashtra, India -----
2)Mr. N.Dilip Kumar
 Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Tirupati, 517520, Andhra Pradesh, India -----
3)Mrs. S.Hemalatha
 Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Data Science, Tagore Engineering College, Rathiamangalam, Chennai, 600127, Tamil Nadu, India - -----
4)Dr. Sailesh Iyer
 Address of Applicant :Professor and Dean, Rai School of Engineering, Rai University, Ahmedabad, 382260, India -----
5)Dr. Nithyanantham Sampathkumar
 Address of Applicant :Associate Professor, School of Computer Science and Engineering, Kalasalingam University, Krishnankoil, Srivilliputhur, Tamil Nadu, India -----
6)Telagamalla Gopi
 Address of Applicant :Assistant Professor, Department of ECE, Annamacharya Institute of Technology and Sciences, Hyderabad, 501512, Telangana, India -----
7)Dr. M.L.Ravi Chandra
 Address of Applicant :Professor, Department of Electronics and Communication Engineering, Srinivasa Ramanujan Institute of Technology, Ananthapuramu, Andhra Pradesh, India -----
8)Dr. Kazi Kutubuddin Sayyad Liyakat
 Address of Applicant :S/o Dilshadbegam Kazi, At- Khed, Post -Kegaon, Tal- North Solapur, Dist.-Solapur, Maharashtra, Pin-413255 -----
9)Mrs. M.Shanthalakshmi
 Address of Applicant :Sri Venkateswara College of Engineering, Sriperumbudur, Chennai, Tamil Nadu, India -----
10)Ms. M. V. B. T.Santhi
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, India -----

(57) Abstract :
 The proposed invention presents an innovative system for Intelligent Surveillance and Night Patrolling using Drones. This system integrates autonomous drones equipped with high-resolution cameras, sensors, and advanced AI algorithms to conduct real-time surveillance during nighttime hours. The AI algorithms enable the drones to recognize patterns, detect anomalies, and autonomously respond to potential security breaches. The system finds versatile applications in perimeter security, industrial monitoring, law enforcement, and disaster response. It enhances security measures by efficiently covering large areas, providing rapid response to incidents, and reducing operational risks. The invention also incorporates privacy safeguards, regulatory compliance, and transparency, prompting discussions about responsible deployment and ethical considerations in security and surveillance operations.

No. of Pages : 24 No. of Claims : 10

(54) Title of the invention : AI/ ML BASED REINFORCED CONSTRUCTION BY HIGH SPEED 3D PRINTING

(51) International classification :G06N0020000000, G06F0030130000, G06Q0030020000, G06N0003080000, G06Q0030060000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.M.S.Kuttimarks
 Address of Applicant :Associate Professor in Civil Engineering Department, Shivaji Roa, Jondhle College of Engineering and Technology, 421601, Maharashtra -----
2)Mrs. P Deepa
3)Mrs. B. Sugatha Kumari
4)Dr. Janaki Manohar N
5)Dr. Sadineni Rama Rao
6)Dr. Senthil Kumar A
7)Dr.M.Jagadeesh Kumar
8)Dr.P.Meenalochini
9)Dr.R.Karthick
10)Dr.R.Senthamil Selvan
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.M.S.Kuttimarks
 Address of Applicant :Associate Professor in Civil Engineering Department, Shivaji Roa, Jondhle College of Engineering and Technology, 421601, Maharashtra -----
2)Mrs. P Deepa
 Address of Applicant :Assistant Professor (Sr. Gr), Department of ECE, Sethu Institute of Technology, Virudhunagar-626115 -----
3)Mrs. B. Sugatha Kumari
 Address of Applicant :Assistant Professor, Commerce and Business Administration, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi -----
4)Dr. Janaki Manohar N
 Address of Applicant :Principal, Arjun College of Technology, Coimbatore Pollachi Highway, Thamaraiikulam, Coimbatore – 642120 -----
5)Dr. Sadineni Rama Rao
 Address of Applicant :Principal, Krishnaveni Engineering College for Women, Narasaraopet-522601, Palnadu (Dt.) -----
6)Dr. Senthil Kumar A
 Address of Applicant :Professor, Department of Artificial Intelligence, Shri Vishnu Engineering College for Women, Andhra Pradesh -----
7)Dr.M.Jagadeesh Kumar
 Address of Applicant :Professor, Department of EEE, Sri Sai Ram Institute of Technology, Chennai-44 -----
8)Dr.P.Meenalochini
 Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Sethu Institute of Technology, Pulloor, Kariapatti 626115 -----
9)Dr.R.Karthick
 Address of Applicant :Associate Professor, Department of Computer Science Engineering, K.L.N. College of Engineering, Pottapalayam, Sivagangai-630612 -----
10)Dr.R.Senthamil Selvan
 Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Tirupati -----

(57) Abstract :
 This invention presents a transformative system and method for AI/ML-based reinforced construction using high-speed 3D printing technology. The system integrates a 3D printing apparatus, AI/ML algorithms, and a real-time monitoring database to optimize construction processes. It allows for automated adjustments in printing parameters, material selection, and structural design to ensure both efficiency and structural integrity. Environmental data is collected and analyzed, enabling the system to make real-time adjustments for eco-friendly construction. Additionally, this invention offers a novel approach to architectural design, with AI/ML algorithms generating complex and adaptive designs for 3D printing. These designs can cater to diverse architectural preferences and environmental conditions, revolutionizing the construction and architectural industries.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001632 A

(19) INDIA

(22) Date of filing of Application :09/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOCOMPATIBLE NANOCOMPOSITE ADSORBENT FOR DYE REMOVAL FROM SYNTHETIC WASTEWATER, AND METHOD OF PRODUCTION THEREOF

(51) International classification :B01J20/02, B01J20/24, B01J23/755, B82Y30/00, B82Y40/00, C01G53/00, C02F1/28, C02F1/30

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SARDAR PATEL UNIVERSITY

Address of Applicant :Vallabh Vidyanagar, Anand, Gujarat - 388120, India Anand -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)RUKSANA SIRACH

Address of Applicant :Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat - 388120, India Anand -----

2)PRAGNESH N DAVE

Address of Applicant :Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat - 388120, India Anand -----

(57) Abstract :

Disclosed herein is a low cost and biocompatible nanocomposite adsorbent for removing dye from synthetic wastewater, and method of production thereof. The adsorbent (1000) is produced using 0.04 wt% nickel cobaltite (NiCo₂O₄) (500), β-cyclodextrin (β-CD) (600); 2.13 wt% of carboxymethyl cellulose (CMC) (700); and 0.85 wt% of succinic acid (SA) (800). The NiCo₂O₄ is synthesized by preparing bottle guard peel extract from dried bottle guard peel powder mixed in ethanol solution; dissolving Co(NO₃)₂.6H₂O and Ni(NO₃)₂.6H₂O; introducing 2M NaOH resulting in a solution with pH value upto 11; allowing the solution to precipitate under ultrasound irradiation for 10-20 minutes followed by filtration and water washing; and heating the precipitate in water followed by filtration, drying and finally calcinating at 440-460 oC temperature for 4-6 hours. The β-CD is dissolved in water at 50-70 temperature, followed by addition of the NiCo₂O₄, then the CMC, and the SA under ultrasound irradiation for 20-40 minutes resulting in a slurry that is heated at 50-70 temperature for 14-18 hours followed by water soaking, washing, and drying to yield the final adsorbent. The adsorbent can adsorb maximum of 178-186 mg of malachite green per 1 gm of adsorbent. Fig. 2

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001730 A

(19) INDIA

(22) Date of filing of Application :09/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MASI ENTROPY BASED MULTI-LEVEL THRESHOLDING SEGMENTATION USING REINFORCEMENT LEARNING ASSISTED FIRE-FLY ORIENTED MULTIVERSE OPTIMIZER

(51) International classification :G06T0005400000, G06N0003080000, G06N0003040000, G06T0007136000, G06T0007110000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Machchhindra Jibhau Garde

Address of Applicant :SSVPS's B. S. Deore College of Engineering, Dhule, Maharashtra, India -----

2)Dr. Pravin Sahebrao Patil

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Machchhindra Jibhau Garde

Address of Applicant :SSVPS's B. S. Deore College of Engineering, Dhule, Maharashtra, India -----

2)Dr. Pravin Sahebrao Patil

Address of Applicant :SSVPS's B. S. Deore College of Engineering, Dhule, Maharashtra, India -----

(57) Abstract :

The present invention relates to provide a masi entropy based multi-level thresholding segmentation using reinforcement learning assisted fire-fly oriented multiverse optimizer. Existing segmentation methods often struggle with convergence accuracy and local optimal issues due to the limitations of meta-heuristic algorithms. To address these challenges, we propose an artificial intelligence system that efficiently balances exploration and exploitation phases in the segmentation process. The collected RGB images undergo preprocessing using Quantized Haar Wavelet Assisted Histogram Equalization (QuaWHe), followed by multilevel image thresholding using a 2D practical Masi entropy histogram function (2D-MentH). Optimal threshold values are selected through Reinforcement Learning assisted fire-fly oriented multiverse optimizer (RL-FF-MVO), minimizing computational complexity. Performance evaluation using various metrics demonstrates the superiority of our model over existing methodologies, promising effective image segmentation outcomes.

No. of Pages : 12 No. of Claims : 7

(54) Title of the invention : HERBAL CREAM COMPOSITION ENRICHED WITH MICHELIA CHAMPACA EXTRACT AND METHOD THEREOF

(51) International classification :A61P0031040000, A61Q0019000000, A61K0009060000, A61K0036185000, C12Q0001040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Savita Sandeep Satpute
 Address of Applicant :Department of Pharmaceutical Chemistry, Associate Professor, Shree Ambabai Talim Sanstha's Diploma In Pharmacy College, Miraj, B.Pharmacy Department Miraj -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Savita Sandeep Satpute
 Address of Applicant :Department of Pharmaceutical Chemistry, Associate Professor, Shree Ambabai Talim Sanstha's Diploma In Pharmacy College, Miraj, B.Pharmacy Department Miraj -----

2)Mrs. Rekha Ravindra Jarag
 Address of Applicant :Department of Pharmaceutical Chemistry, Bharati Vidyapeeth, College of Pharmacy, Kolhapur Kolhapur -----

3)Mrs. Swapnali Sachin Patil
 Address of Applicant :PhD Scholar in Pharmaceutical Sciences, KVV's Krishna Institute of Pharmacy, Karad Dist- Satara Maharashtra Karad -----

4)Mrs. Madhura Mahesh Karale
 Address of Applicant :Ph.D. Scholar in Pharmaceutical Sciences, Jaipur National University, Rajasthan. Assistant Professor at Bharti Vidyapeeth Institute of Pharmacy, C.B.D., Navi Mumbai. Navi Mumbai -----

5)Ms. Swapanali Arun Mohite
 Address of Applicant :Adarsh College of Pharmacy, Vita Tal Khanapur Dist-Sangli Maharashtra Vita -----

6)Mrs. Dipti Sharad Pawar
 Address of Applicant :Department of Pharmaceutics, Assistant Professor, Shree Ambabai Talim Sanstha's Diploma in Pharmacy College, Miraj B. Pharmacy Department Miraj -----

7)Ms. Shailaja Shashikant Shirsath
 Address of Applicant :Department of Pharmacology, Assistant Professor, Shree Ambabai Talim Sanstha's Diploma In Pharmacy College, Miraj, B. Pharmacy Department Miraj -----

8)Ms. Rahee Bhimrao Chougule
 Address of Applicant :Department of Pharmaceutical Analysis, Assistant Professor, Shree Ambabai Talim Sanstha's Diploma In Pharmacy College, Miraj , B. Pharmacy Department Miraj -----

9)Mr Shivraj Rajendra Patil
 Address of Applicant :Adarsh College of Pharmacy, Vita Tal Khanapur Dist-Sangli Vita -----

10)Ms. Manasvi Sudhir Patil
 Address of Applicant :Women's College of Pharmacy, Peth Vadgaon Tal-Hatkanagale Dist- Kolhapur Peth Vadgaon -----

(57) Abstract :
 Cracked heels, also known as heel fissures, is a common foot condition characterized by the presence of dry, thickened skin on the heels that may develop deep, painful cracks. Cracked heels can create an entry point for bacteria, making the affected area susceptible to infection. If bacteria enter the cracks and multiply, it can lead to a bacterial infection. Symptoms of a bacterial infection in cracked heels may include the cracks in the heels may become more painful, and there could be a throbbing sensation. The affected area may become red, swollen, and warm to the touch. Pus or other discharges may be present in severe cases of infection. Bacterial infections can contribute to a foul odor emanating from the infected area. The existing cracks may deepen or spread, and new ones may develop. The types of bacteria that may be present in cracked heels can vary, but common culprits include, Staphylococcus aureus, Streptococcus pyogenes, Pseudomonas aeruginosa, Proteus species and Enterococcus species. The present invention relates to herbal antibacterial moisturizing cream based pharmaceutical preparation for the management of cracked skin structures specially foot care application. The combination of michelia champaca extract with moisturizing ingredients such as glycerin, white soft paraffin, aloe barbadensis and other required excipients are the principal components of the herbal cream. Combination of these herbal constituents may produce an effect to minimise, fight microbial infection as well as moisten the damaged skin. Antimicrobial study shows that there was no microbial contamination observed and it showed good zone of inhibition.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002643 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ANALYSIS OF AI - HUMAN COLLABORATION ON CUSTOMER ENVIRONMENT IN LIVE STREAMING E-COMMERCE

(51) International classification :G06Q0030020000, G06Q0030060000, G06Q0030000000, H04N0021218700, H04L0051020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. HARSHIT RAJENDRA GANDHI
Address of Applicant :RESEARCH SCHOLAR, MANAGEMENT STUDIES, MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL, BHOPAL, MADHYA PRADESH – 462003, INDIA Bhopal -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Mr. HARSHIT RAJENDRA GANDHI
Address of Applicant :RESEARCH SCHOLAR, MANAGEMENT STUDIES, MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY, BHOPAL, BHOPAL, MADHYA PRADESH – 462003, INDIA Bhopal -----

(57) Abstract :

ABSTRACT Analysis of AI - Human Collaboration on Customer Environment in live streaming E-Commerce Live streaming e-commerce has seen a rise in popularity in recent years, with companies utilizing this platform to engage with customers and promote their products. To further improve the customer experience, artificial intelligence (AI) has been incorporated into live streaming e-commerce to aid in human collaboration. AI in live streaming e-commerce enables real-time data collection and analysis to improve customer targeting and personalization. It also automates certain tasks such as product recommendations and chatbot responses, allowing human hosts to focus on engaging with customers and showcasing products. This integration of AI and human collaboration creates a more efficient and effective customer environment in live streaming e-commerce. One key aspect of AI-human collaboration in live streaming e-commerce is the use of natural language processing (NLP). This technology allows AI to understand and respond to human language in real-time, providing more accurate and timely responses to customer questions and comments. Another important aspect is the use of AI-powered visual recognition technology. This allows the AI to identify products shown in a live stream and provide relevant information, such as pricing and availability, to customers in real-time. This not only enhances the customer experience by providing instant access to information, but also frees up human hosts from having to constantly provide this information manually. Furthermore, AI can analyze customer behavior and preferences to provide personalized product recommendations. This not only improves the customer experience by showing relevant products, but also increases sales for the company. In addition to customer-facing benefits, AI also aids in the backend operations of live streaming e-commerce. It can monitor and analyze data on customer interactions, providing insights on customer behavior and preferences. This information can help companies improve their marketing strategies and product offerings. Overall, the collaboration between AI and human hosts in live streaming e-commerce creates a more seamless and efficient customer environment. It allows for a more personalized and targeted experience for customers, while also providing valuable data and insights for the company. As this technology continues to advance, we can expect to see further improvements in the customer experience and increased sales for e-commerce companies.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002678 A

(19) INDIA

(22) Date of filing of Application :13/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : VALVULOPLASTY CATHETER

(51) International classification :A61B17/22, A61F2/01, A61M25/00, A61M25/10, A61M39/06

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Meril Life Sciences Pvt. Ltd.

Address of Applicant :Survey No. 135/139 Bilakhia House, Muktanand Marg, Chala, Vapi-Gujarat 396191, India. ----- --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KOTHWALA, Deveshkumar Mahendralal

Address of Applicant :6/2077, Rampura Main Road, Near Patidar Bhavan, Surat -395003, Gujarat -----

2)SHAIKH, Amirhamzah Mahmadiqbal

Address of Applicant :At & Po. Samarpada (Muslim Faliya), Near Masjid, Ta. Pardi, Dist. Valsad-396126, Gujarat -----

3)BHANDARI, Yashkumar Bipinbhai

Address of Applicant :Sadak Faliya, Balda, Ta. Pardi, Dist. Valsad-396125, Gujarat -----

(57) Abstract :

TITLE OF THE INVENTION: VALVULOPLASTY CATHETER The present invention discloses a catheter (100) including a control unit (125), a balloon assembly (130) and a filter assembly (140). The control unit (125) includes a slider (125b) coupled to a hub casing (125f1) of a hemostasis hub (125f). The slider (125b) is slidably movable between a proximal and a distal end of a slot (125c) of a handle (125a). The balloon assembly (130) includes a balloon (135) configurable to be in a deflated state or a radially expanded state and a motor (131) mounted within the balloon (135) on a support tube (133). The filter assembly (140), disposed proximally to the balloon assembly (130) comprises a filter (141) configured to be toggled between an expanded state and a collapsed state. In a first configuration, the slider (125b) is at the proximal end of the slot (125c) and the filter (141) is in the collapsed state and in a second configuration, the slider (125b) is at the distal end of the slot (125c) and the filter (141) is in the expanded state. FIG. 1

No. of Pages : 38 No. of Claims : 16

(54) Title of the invention : CLOUD FORENSICS INVESTIGATIVE TOOL TEXONOMY AND SOLUTIONS FOR CYBERCRIME DETECTION IN CLOUD AND EDGE COMPUTING ENVIRONMENTS

<p>(51) International classification :G06F0009500000, H04L0067100000, H04L0067109700, G06F0009455000, G06F0009480000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR. KIRAN SHRIMANT KAKADE Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. KIRAN SHRIMANT KAKADE Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. ----- 2)DR PRAMOD PANDURANG NANDARDHANE Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. ----- 3)DR. JAYANT BRAHMANE Address of Applicant :SGPC'S GURU NANAK INSTITUTE OF MANAGEMENT STUDIES, UNIVERSITY OF MUMBAI , MUMBAI - ----- 4)DR. SHAILENDRAKUMAR KALE Address of Applicant :MARATHWADA MITRAMANDAL'S COLLEGE OF ENGINEERING, DEPARTMENT OF MBA, CTS NO.205, VADAR VASTI RD, BEHIND VANDEVI TEMPLE, KARVE NAGAR, PUNE, MAHARASHTRA 411052 ----- 5)PROF. ANJALI M. KULKARNI Address of Applicant :LALA LAJPATRAI INSTITUTE OF MANAGEMENT, LALA LAJPATRAI MARG, MAHALAXMI, MUMBAI-400 034, MAHARASHTRA, INDIA. ----- 6)PROF. MOEEN MUZAFFAR AH SAYYED Address of Applicant :MIT COLLEGE OF MANAGEMENT MIT ART DESIGN AND TECHNOLOGY UNIVERSITY, RAJBAUG, LONI KALBHOR PUNE ----- 7)DR. SULAKSHANA BHAUSAHEB MANE Address of Applicant :BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NAVI MUMBAI, SECTOR-7, CBD, BELAPUR, NEAR KHARGHAR, RAILWAY STATION, NAVI MUMBAI-400614 -----</p>
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(57) Abstract :
This study addresses the growing need for cost-effective and efficient digital forensics in cloud computing environments, focusing on investigating cloud-based cybercrimes. The authors introduce an iCloud investigative tool taxonomy, providing a searchable catalog to assist digital inspectors in identifying products that meet their technical requirements. The study emphasizes the importance of successful implementation in securing cloud services and protecting providers from fraudulent activities. The research results highlight the effectiveness of the recommended solution in aiding digital inspectors in their mission to address cloud-based cybercrimes. The paper not only analyzes the challenges posed by the cloud computing paradigm on digital forensics but also provides insightful solutions and recommendations, comparing cloud computing with traditional digital forensics approaches.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001118 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : HORN MONITORING SYSTEM FOR A VEHICLE

(51) International classification :B60Q5/00, G08B21/00,
H04R1/30
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DALVI, Mihika Madhusudan

Address of Applicant :1401, E1 Hyderpark Residency, Off GB
Road, Tulsidham, Thane West, Maharashtra – 400610, India.
Thane -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DALVI, Mihika Madhusudan

Address of Applicant :1401, E1 Hyderpark Residency, Off GB
Road, Tulsidham, Thane West, Maharashtra – 400610, India.
Thane -----

(57) Abstract :

The present disclosure relates to a horn monitoring system (100) for monitoring and/or auditing applications of one or more horns of a vehicle. The horn monitoring system (100) comprises a power supply device (102) having a positive terminal and a negative terminal, at least one horn (104) of the vehicle connected between the positive terminal and the negative terminal of the power supply device (102), and a counter (108) connected to the at least one horn (104) for counting instances when the at least one horn (104) is actuated.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001120 A

(19) INDIA

(22) Date of filing of Application :05/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CAROLSVIT-A VITAMIN A 200000 IU ORAL DROPS IN NANOSHOT OF 5ML

(51) International classification :A61K31/07, A61K47/26, A61K8/67, A61K9/08, A61P3/02

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)AMIT GAJANAN NERKAR

Address of Applicant :Flat No. F-903, Eisha Bella Vista, S.No. 903, Behind Talab Company, Kondhwa Budruk, Pune-411048 ----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AMIT GAJANAN NERKAR

Address of Applicant :Flat No. F-903, Eisha Bella Vista, S.No. 903, Behind Talab Company, Kondhwa Budruk, Pune-411048 ----

(57) Abstract :

Vitamin A deficiency is seldom seen in infants and young babies. The Vitamin A deficiency can lead to impaired vision problems, skin problems. Also it is noteworthy that the Vitamin A deficiency is also seen in the Cancer patients. The product of vitamin A in several concentrations are available. The product stands unique in concentration and formulation, wise its manufacturing: 1) The product is available in the sorbitol base. 2) The product is nanoshot for oral use. 3) The product is available in 40,000 IU / ml concentration and is not more than 5 ml in packing of each single bottle. 4) The product is suitably packed and labelled in 10 ml amber colored bottle to avoid from heat and sunlight. Several unconventional capsules are available that contain Vitamin A in 100000 IU and need to be broken before oral administration for the desired use. The product is an invention of 40,000IU / ml and serves in single nanoshot oral use the deficiency and desired level of component use for the clinical basis and as a pharmaceutical medicine, may it be for cancer patients off label use. Also for the babies as per the discretion of Pharmacist / Physician/Pediatrician the product may be advised by their use, may be off label or for therapeutic component of Vitamin A deficiency. Further the product can be administered under the Over-the-Counter medicine by the Pharmacist in local pharmacy. 2. Introduction of the Product/ Concept in comparison with conventional available in the market The product is CAROLSVIT-A containing each ml of 40,000 IU of Vitamin A in sorbitol base with edible flavoring agent as Nanoshot for oral administration only. CAROLSVIT is registered Trademarked IPR of M/s Carolene Therapeutics Pvt Ltd and the concept is being sold in market of India since the year 2021 as conventional nanoshot for oral use of not more 5 ml in the sorbitol edible flavored base. Vitamin A is known to be a Lipid soluble Vitamin and exists in various forms such as Retinoic acid and other forms made in the form of tablet, capsule or oral syrup. 1) None of the preparations in the available conventional form has the strength / concentration of 40,000 IU/ ml. 2) The other formulations, other than those claimed in this patent are capsules, syrups and tablets containing 1,00,000 IU each 5 ml of Vitamin A. 3) Thus from point No. 2., this formulation stands different in terms on nanoshot being of 5 ml concentration for oral use and each ml containing 40,000 IU in sorbitol edible flavored base. 4) The other conventional formulations and inconvenient to make up the doses and there is spillage and spoilage and dose variation when administered orally. Thus the capsule needs to be broken, syrup has dose variation in terms of administration to the babies and neonates for the treatment of Grover and as prophylactic for the Vitamin A deficiency. The claimed product in this patent has advantage of being 40,000 IU and is dose consistent and available as nanoshot for oral administration for the babies and neonates, toddlers and off label cancer patients.

No. of Pages : 3 No. of Claims : 10

(54) Title of the invention : AN INTERACTIVE TABLE-TOP SYSTEM

<p>(51) International classification :G09B0007000000, G09B0019000000, G09B0019020000, G09B0005000000, G09B0007020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Vishwakarma Institute of Information Technology Address of Applicant :Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pawan S. Wawage Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>2)Dr. Yogesh D. Deshpande Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>3)Mrs. Riddhi R. Mirajkar Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>4)Himanshu Naidu Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>5)Anurag Pande Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>6)Yash Paralikar Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p> <p>7)Saloni Gaikwad Address of Applicant :Department of Information Technology, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----</p>
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(57) Abstract :

An interactive table-top system is described herein. The system transforms education by harnessing tangible objects and real-time tracking to bridge the physical and digital worlds. Touch-sensitive surface and overhead camera capture students' manipulations of objects marked with fiducial symbols, translating them into dynamic responses within educational software displayed on the surface. This seamless feedback loop, powered by UDP and TUIO protocols, fuels collaborative learning through interactive lessons, simulations, and visualizations, making complex concepts tangible and fostering engagement across diverse subjects and educational settings.

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : REAL-TIME DRONE-BASED CONCRETE DAMAGE DETECTION SYSTEM AND METHOD FOR TALL STRUCTURES

(51) International classification :B64C0039020000, G06N0003080000, G05D0001000000, G06N0003040000, G01N0029040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Vishwakarma Institute of Information Technology
 Address of Applicant :Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Rupali Atul Mahajan
 Address of Applicant :Department of CSE (Data Science), Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. ---

2)Dr. Parikshit N. Mahalle
 Address of Applicant :Department of AI and DS, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

3)Dr. Vivek S. Deshpande
 Address of Applicant :Department of Computer, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

4)Dr. Sachin Sakhare
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. ---

5)Omkar Khade
 Address of Applicant :Student, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

6)Gargee Aher
 Address of Applicant :Student, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

7)Chinmay Kale
 Address of Applicant :Student, Vishwakarma Institute of Information Technology, Survey No.3/4, Kondhwa, Budruk, Pune - 411048, Maharashtra, India. -----

(57) Abstract :
 A real-time drone-based concrete damage detection system and method for tall structures is described. The system employs a Hexacopter drone with a high-resolution camera and Nvidia Jetson TX2 for onboard processing. Utilizing the YOLO-v3 deep learning model, it autonomously captures and analyzes real-time concrete damage data. The system wirelessly transmits results to a remote monitoring unit, enhancing efficiency in inspecting tall and complex structures. With applications in building inspection and structural analysis, this innovation integrates autonomous drone technology and deep learning to streamline the detection of cracks and weaknesses, providing a swift and effective solution for building assessment.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002182 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FLAME SHAPE MAXILLARY EXPANSION DEVICE FOR ESTABLISHING EFFICIENT ARCH PERIMETER

(51) International classification :A61C7/00,
A61C7/10
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr Siddharth Sonwane

Address of Applicant :38A Galli No.1 Suryuday Nagar
Fulmati layout Beltarodi Road, Nagpur -----

2)Dr Shweta Siddharth Sonwane

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Siddharth Sonwane

Address of Applicant :38A Galli No.1 Suryuday Nagar Fulmati
layout Beltarodi Road, Nagpur -----

2)Dr Shweta Siddharth Sonwane

Address of Applicant :Plot no 38 A, Galli NO 1, Suryodaya nagar
, Fulmati layout , Beltarodi road, Nagpur. Maharashtra state
Nagpur -----

(57) Abstract :

The Flame Shape Maxillary Expansion Device represents a groundbreaking innovation in orthodontic treatment, leveraging its unique flame-shaped design to achieve comprehensive and efficient maxillary arch expansion. This device addresses the challenges posed by conventional expanders by simultaneously augmenting the arch perimeter, inter-canine width, and inter-premolar width. Unlike traditional methods, the Flame Shape Maxillary Expansion Device is specifically engineered to prevent proclination of the anterior teeth during expansion, safeguarding the patient's facial profile from undesirable alterations. The core mechanism of this device involves a non-spring-loaded jackscrew, meticulously constructed to withstand forces during activation, ensuring durability throughout the treatment period. The all-wire frame, integral to the flame-shaped configuration, contributes to a lightweight and non-intrusive design, facilitating controlled expansion. Heavy gauge wire extensions, precisely adapted to follow individual palatal contours and securely soldered to dental bands on premolar and molar teeth, provide strength and stability while maintaining adaptability. The advantages of the all-wire construction extend to minimizing irritation to palatal mucosa, and the streamlined design without additional components, such as springs, simplifies cleaning and promotes oral hygiene. The Flame Shape Maxillary Expansion Device is designed for efficient sutural separation, achieving up to 11 mm within a short period, with a maximum separation of 13 mm, showcasing its capacity for significant and effective expansion. Each activation of the jackscrew produces approximately 0.2 mm of lateral expansion, systematically performed from front to back, allowing for controlled and sequential expansion of the maxillary arch. In summary, this invention introduces a Flame Shape Maxillary Expansion Device that not only optimizes the expansion process by efficiently increasing arch dimensions but also addresses aesthetic concerns by preventing proclination of anterior teeth. The device's unique features, encompassed by the defined claims, make it a promising advancement in orthodontic treatment, offering improved patient comfort, reduced treatment duration, and precise control over the expansion process.

No. of Pages : 21 No. of Claims : 10

(54) Title of the invention : DEVELOPMENT OF 2D AND 3D ORGANOID MODELS FOR THE INVESTIGATION OF ORAL CARCINOGENESIS

(51) International classification :C12N0005071000, G01N0033500000, A61P0011020000, C12Q0001688600, C12N0005000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. Shreyas N Shah
 Address of Applicant :Associate Professor, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

2)Dr. Jitendra V Kalburge
3)Dr. Girish Rameshbhai Chauhan
4)Dr. Manisha Shrikaar
5)Dr. Dushyantsinh Vala
6)Dr. Uday Patel
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Shreyas N Shah
 Address of Applicant :Associate Professor, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

2)Dr. Jitendra V Kalburge
 Address of Applicant :Professor & Head, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

3)Dr. Girish Rameshbhai Chauhan
 Address of Applicant :Assistant Professor, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

4)Dr. Manisha Shrikaar
 Address of Applicant :Associate Professor, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

5)Dr. Dushyantsinh Vala
 Address of Applicant :Tutor, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Govt. Dental College and Hospital, Jamnagar-361008, Gujarat, India Jamnagar -----

6)Dr. Uday Patel
 Address of Applicant :Professor & Head, Department of Oral and Maxillofacial Pathology and Oral Microbiology, Goenka Research Institute of Dental Sciences, Gandhinagar - 382650, Gujarat, India Gandhinagar -----

(57) Abstract :
 This utility patent application discloses innovative methods and systems for the development and utilization of 2D and 3D organoid models tailored to investigate oral carcinogenesis. Oral cancer poses a significant global health challenge, necessitating improved research methodologies to unravel its complex mechanisms and potential therapeutic interventions. Traditional in vitro models often fall short in replicating the intricate microenvironment of oral tissues.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002302 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADVANCED NITI INSTRUMENTS IN THE REMOVAL OF GUTTA-PERCHA FOR ROOT CANAL RETREATMENT

(51) International classification :A61C19/00, A61C3/00, A61C5/42, A61C5/46

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :

1)Tejash Taunk

Address of Applicant :Professor, Department of Conservative and Endodontics. Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

2)Rucha Jain

3)Md. Owais Rahman

4)Dr. Sonam rungta Agrawal

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Tejash Taunk

Address of Applicant :Professor, Department of Conservative and Endodontics. Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

2)Rucha Jain

Address of Applicant :Senior Lecturer, Department of Conservative and Endodontics. Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

3)Md. Owais Rahman

Address of Applicant :Senior Lecturer, Department of Conservative and Endodontics. Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

4)Dr. Sonam rungta Agrawal

Address of Applicant :Reader, Department of Conservative and Endodontics. Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

(57) Abstract :

The present invention relates to advanced Nickel Titanium (NiTi) instruments designed for the efficient and safe removal of Gutta-Percha during root canal retreatment procedures in dentistry. The instruments incorporate a customized NiTi alloy composition, advanced cutting edge design, ergonomic handles, multiple sizes and configurations, and safety measures to optimize Gutta-Percha removal while enhancing practitioner comfort and minimizing procedural risks.

No. of Pages : 7 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002303 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FOUR DIFFERENT METHODS OF WORKING LENGTH DETERMINATION DURING ROOT CANAL ADVANCED PREPARATION ON POST-OPERATIVE PAIN

(51) International classification :A61C19/04, A61C5/40,
G06T7/0012
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Sonam rungta Agrawal

Address of Applicant :Reader, Department of Conservative and Endodontics, Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

2)Tejash Taunk

3)Rucha Jain

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Sonam rungta Agrawal

Address of Applicant :Reader, Department of Conservative and Endodontics, Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

2)Tejash Taunk

Address of Applicant :Professor, Department of Conservative and Endodontics, Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

3)Rucha Jain

Address of Applicant :Senior Lecturer, Department of Conservative and Endodontics, Rungta College of Dental Science and Research, Kohka Kurud Bhilai, Chhattisgarh - 490024, India Bhilai -----

(57) Abstract :

The present invention relates to the field of endodontics and encompasses four distinct methods for determining the working length during root canal advanced preparation. Additionally, the invention involves assessing the impact of these methods on post-operative pain experienced by patients undergoing root canal treatment. The methods include radiographic assessment, electronic apex locators, 3D imaging, and laser-based techniques. Clinical evaluations and comparative studies have been conducted to evaluate the correlation between the accuracy of each method and post-operative pain levels.

No. of Pages : 8 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002313 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ENHANCEMENT OF CELLULAR NETWORK USING APPLICATION OF INDUSTRIAL IOT IN WAN COMMUNICATION

<p>(51) International classification :H04L0067120000, H04W0004700000, G06Q0010060000, H04L0012660000, H04W0040120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)LNCT University Address of Applicant :Bhopal, Madhya Pradesh 462042 ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Amrita Khera Address of Applicant :Trinity Institute of Technology and Research, Bhopal, Madhya Pradesh 462021 -----</p> <p>2)Dr. Uma Shankar Kurmi Address of Applicant :LNCT University, Bhopal, Madhya Pradesh 462042 -----</p> <p>3)Mr.Rohit Soni Address of Applicant :Trinity Institute of Technology and Research, Bhopal, Madhya Pradesh 462021 -----</p> <p>4)Ms. Renuka P Mishra Address of Applicant :Trinity Institute of Technology and Research, Bhopal, Madhya Pradesh 462021 -----</p> <p>5)Mr. Anuj Kumar Dwivedi Address of Applicant :Shri Krishna University, Chhatarpur, Madhya Pradesh 471001 -----</p>
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(57) Abstract :

The proposed invention introduces a revolutionary approach to cellular networks by integrating Industrial Internet of Things (IIoT) technology into Wide Area Network (WAN) communication. This system leverages IIoT sensors, network management software, and real-time analytics to proactively monitor and manage network components, ensuring heightened reliability and minimized downtime. It optimizes resource allocation through IIoT-driven analytics, enhancing quality of service while reducing operational costs. Furthermore, it fortifies network security by collecting and analysing data from diverse sources, enabling real-time threat detection and mitigation. Energy efficiency is prioritized through IIoT-powered power consumption monitoring and optimization, promoting both cost savings and environmental sustainability. The proposed system also simplifies the integration of IoT devices into cellular networks, with applications ranging from industrial automation to healthcare, agriculture, smart transportation, and emergency response. In essence, this invention embodies the fusion of telecommunications and IIoT, promising a more connected, efficient, and secure future for cellular networks across industries. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002321 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CENTRALIZER

(51) International classification :E21B0017100000, H02K0003120000, F04D0029320000, F03B0017060000, F16B0025000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Meril Healthcare Pvt. Ltd.

Address of Applicant :Survey No. 135/139, Bilakhia House, Muktanand Marg, Chala, Vapi- 396191, Gujarat, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PATEL, Vyomkumar Piyush

Address of Applicant : 'Vyomesh' Bungalow, Anandnagar, Opp. District Court, Tokarkhada, Silvassa. Pin: 396230, Dadra And Nagar Haveli And Daman And Diu -----

2)PATEL, Snehal

Address of Applicant :At Post Velparva, Vachla Falia, Pardi, Valsad - 396125, Gujarat -----

3)KV, Latheesh

Address of Applicant :Krishnalayam, Kudukka valappil, Edakkeppuram, Cherukunnu PO, Kannur, 670301, Kerala -----

(57) Abstract :

TITLE OF INVENTION: CENTRALIZER The present disclosure relates to a centralizer (100). In an embodiment, the centralizer (100, 200) includes a base (102, 202), a plurality of wings (106n, 206n), a central portion (104, 204) and a plurality of slots (108, 208). The plurality of slots (108, 208) is provided on at least one of the base (102, 202), at least one wing (106n, 206n) of the plurality of wings (106n, 206n) and the central portion (104, 204). Fig. 1

No. of Pages : 19 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002322 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : THROMBECTOMY DEVICE

(51) International classification :A61B17/22, A61B17/32, A61B17/3203, A61B17/3207, A61F2/06, A61M25/00, A61M25/09

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Meril Life Sciences Pvt. Ltd.

Address of Applicant :Survey No. 135/139 Bilakhia House, Muktanand Marg, Chala, Vapi-Gujarat 396191, India. ----- --

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KOTHWALA, Deveshkumar Mahendralal

Address of Applicant :6/2077, Rampura Main Road, Near Patidar Bhavan, Surat -395003, Gujarat, India -----

2)SHAIKH, Amirhamzah Mahmadiqbal

Address of Applicant :At & Po. Samarpada (Muslim Faliya), Near Masjid, Ta. Pardi, Dist. Valsad-396126, Gujarat, India ----- --

3)BHANDARI, Yashkumar Bipinbhai

Address of Applicant :Sadak Faliya, Balda, Ta. Pardi, Dist. Valsad-396125, Gujarat, India -----

(57) Abstract :

TITLE OF THE INVENTION: THROMBECTOMY DEVICE The present invention discloses a thrombectomy device (100). The thrombectomy device (100) includes a motor (110) having a shaft (110b), a pump (113) having an impeller (113b) detachably coupled to the motor (110), a transmission shaft (115) operatively coupled to the shaft (110b) and a wire (117) having a proximal end coupled to a proximal end of the transmission shaft (115). The wire (117) is configurable to be in an open condition or a closed condition. The thrombectomy device (100) includes a control element (111) coupled to the motor (110). The control element (111) is configurable to be in a first position or a second position. The motor (110) moves in a distal direction and couples with the impeller (113b) in response to the control element (111) being moved to the second position. Fig. 1

No. of Pages : 45 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002999 A

(19) INDIA

(22) Date of filing of Application :16/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : EFFERVESCENT PREMIX

(51) International classification :A23L2/40, A61K9/20,
A61K9/46

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Fullife HealthCare Pvt Ltd

Address of Applicant :418, Samartha Aishwarya,Highland Park, Lion Sol MArg, Andheri west, Mumbai, India Mumbai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Parikshit Govind Patil

Address of Applicant :102, Rajanigandha, Sangvi Nisarga housing society, near Reywood Villa, Khondagewadi, Lonavala, Maharashtra Lonavala -----

2)Varun Satish Khanna

Address of Applicant :71, Royal Accord, Lokhandwala, Andheri west, Mumbai, Maharashtra Mumbai -----

(57) Abstract :

Effervescent premix stable to moisture attack, meant to be used for formulation of effervescent formulations, comprising an acid component and a base component wherein the said components are physically separated and mixed prior to use, and a process of making the same. The process of manufacturing the said effervescent premix of comprises of granulating the acid component; granulating the base component; and packaging the components separately.

No. of Pages : 35 No. of Claims : 24

(54) Title of the invention : AN OPTIMIZED AUTOMATED PET FEEDER FOR ANIMALS USING IOT

(51) International classification :A01K5/02, G06N20/00, G06V40/00, G06V40/20, G16Y40/35

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Prof. Pranali G.Chavhan
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
2)Prof.Disha S.Wankhede
3)Dr. Rupali A.Mahajan
4)Prof. Gajanan H.Chavhan
5)Prof.Vaishali A Mishra
6)Prof. Vidya S.Gaikwad
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Prof. Pranali G.Chavhan
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
2)Prof.Disha S.Wankhede
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
3)Dr. Rupali A.Mahajan
 Address of Applicant :Department of Computer Science & Engineering (Data Science),Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
4)Prof. Gajanan H.Chavhan
 Address of Applicant :Department of Electronics and Telecommunication, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
5)Prof.Vaishali A Mishra
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
6)Prof. Vidya S.Gaikwad
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) -----
7)Ms.Pratiksha Naik
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) Pune -----
8)Ms.Sneha Rahate
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) Pune -----
9)Ms.Sakshi Shinde
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) Pune -----
10)Ms.Isha Varade
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) Pune -----
11)Ms.Akshata Vibhute
 Address of Applicant :Department of Computer Engineering, Vishwakarma Institute of Information Technology, Pune ,Survey No. 3/4, Kondhwa (Budruk) Pune – 411048, Maharashtra (India) Pune -----
12)Ms.Kalyani B.Rathod
 Address of Applicant :Department of Computer Engineering, Smt Kashibai Navale College of Engineering , Vadgaon, Pune Pune -----

(57) Abstract :
 ABSTRACT The present invention relates to an optimized automated pet feeder (100) for animals using IoT. The optimized automated pet feeder (100) for animals using IoT comprises a food container, a plurality of sensors, a camera, a data storage unit, a servomotor, a central processing unit and a alert generating unit. The optimized automated pet feeder (100) for animals using IoT can ensure the automated pet feeder (100) delivers nutritionally balanced meals suitable for the specific dietary needs of different animals. The optimized automated pet feeder (100) for animals using IoT can design the automated pet feeder (100) to operate efficiently, minimizing energy consumption and environmental impact. The optimized automated pet feeder (100) for animals using IoT can generate automated alerts for maintenance needs, such as low food levels, mechanical issues, or the need for cleaning.

No. of Pages : 16 No. of Claims : 4

(54) Title of the invention : VIRTUAL LANGUAGE IMMERSION PROGRAM FOR LANGUAGE LEARNING

(51) International classification :G09B0019060000, G09B0019040000, G09B0005060000, G09B0007040000, G09B0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Prof. SANJAY AGAL
Address of Applicant :PROFESSOR, COMPUTER ENGINEERING, PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY, PARUL UNIVERSITY, VADODARA, GUJARAT-391760, INDIA Vadodara -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Prof. SANJAY AGAL
Address of Applicant :PROFESSOR, COMPUTER ENGINEERING, PARUL INSTITUTE OF ENGINEERING & TECHNOLOGY, PARUL UNIVERSITY, VADODARA, GUJARAT-391760, INDIA Vadodara -----

(57) Abstract :
 ABSTRACT VIRTUAL LANGUAGE IMMERSION PROGRAM FOR LANGUAGE LEARNING The Virtual language immersion program is an innovative approach to language learning that allows individuals to immerse themselves in a virtual environment where the target language is spoken and used in real-life situations. This program leverages technology to create a simulated language immersion experience, providing learners with an interactive and engaging platform to develop their language skills. Through the use of virtual reality, learners are transported to a virtual world where they can interact with native speakers, explore different cultural contexts, and practice their language skills in a natural and authentic setting. This immersive experience offers a unique opportunity for language learners to develop their speaking, listening, and comprehension abilities in a safe and controlled environment. The program also utilizes artificial intelligence and machine learning techniques to adapt to learners' individual needs and provide personalized feedback and support. This adaptive learning approach allows for a customized and efficient learning experience, catering to the specific strengths and weaknesses of each learner. Moreover, the Virtual language immersion program offers a wide range of language options, making it accessible to learners of different languages and skill levels. This makes it an ideal tool for both beginners looking to build a strong foundation and advanced learners seeking to improve their fluency and cultural understanding. In addition to its educational benefits, this program also offers practical advantages, such as convenience and cost-effectiveness

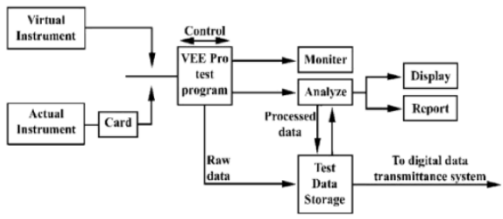


Fig 1: Proposed innovation model

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001762 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : RAILWAY TRACK POINT STATUS ACQUISITION & LOCOMOTIVE SPEED CONTROL

(51) International classification :B60K0031000000, B60W0030180000, G05D0001000000, B60W0050000000, G05B0019418000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Shreesh YASHOVARDHAN Kolhatkar
Address of Applicant :C205, Wadhwa solitaire, Kolshet Road

2)Harshit Unmesh Deshpande
3)Mohamed Husain Sakarwala
4)Vedant Vijay Bhopale

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Shreesh YASHOVARDHAN Kolhatkar
Address of Applicant :C205, Wadhwa solitaire, Kolshet Road -----

2)Harshit Unmesh Deshpande
Address of Applicant :188/5248, Sanmati CHS, behind Pantnagar Post Office, Ghatkopar (East), Mumbai Mumbai -----

--

3)Mohamed Husain Sakarwala
Address of Applicant :B-607, Diamond Sagar CHSL Malkani Complex 134, SV Road, Jogeshwari (West) Mumbai -----

4)Vedant Vijay Bhopale
Address of Applicant :S1-804, (Octave), Godrej Prime, near Samaj Mandir Hall, Chembur Mumbai -----

(57) Abstract :
Developed an IoT based technology where the status of the upcoming rail crossover point is known to the loco pilot and based on this data, the control over speed can be achieved. Max permissible speed can be maintained during mainline status. If diversion detected, automatically speed is reduced.

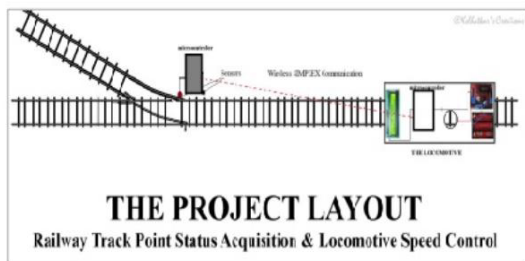


Fig. 1

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001767 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SUBJECT CREDIT-BASED AUTOMATIC TIME TABLE GENERATION SYSTEM

(51) International classification :G06Q0050200000, G06Q0010060000, G06Q0010100000, G05B0019418000, G11C0029560000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MARWADI UNIVERSITY

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)MR. PARTH PARMAR

3)PRANAVBHAI TANK

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MR. PARTH PARMAR

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)PRANAVBHAI TANK

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

(57) Abstract :

SUBJECT CREDIT-BASED AUTOMATIC TIME TABLE GENERATION SYSTEM Abstract Disclosed herein is a subject credit-based automatic timetable generation system (SCBTTGS) for educational institutions to streamline the scheduling process. The system comprises a data input module configured to receive pertinent information, including subject credits, student preferences, teacher availability, and room availability. A constraint processing unit is arranged to process and categorize the received information. An algorithmic scheduling engine synthesizes the processed constraints into a viable and optimized timetable. Further, a timetable generation module compiles and organizes the algorithmically generated timetable. An output interface can be intuitive and accessible. Fig. 1

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001768 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : REAL-TIME FAKE INFORMATION ALERT WITHIN BROWSER OR SOCIAL MEDIA PLATFORMS FOR CONTENT EVALUATION

(51) International classification :G06Q0050000000, G06F0016930000, H04M0001724120, H04N0005232000, G06T0011600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MARWADI UNIVERSITY

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)MS. RESHMA SUNIL

3)MS. PARITA MER

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MS. PARITA MER

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)MS. RESHMA SUNIL

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

(57) Abstract :

REAL-TIME FAKE INFORMATION ALERT WITHIN BROWSER OR SOCIAL MEDIA PLATFORMS FOR CONTENT EVALUATION Abstract The present disclosure relates to identify and alert a user about fake information in real-time within browsers or social media platforms. The system comprises the information scan module which continuously monitors and scans the content accessed by a user on said platforms. The fake information detection module evaluates the scanned data against predefined criteria to identify potential disinformation. Upon detection of fake information, the alert generation module is activated to create an immediate notification. Further, the user interface module is arranged for displaying said real-time alert directly within the user's browser or on the social media platform interface. Fig. 1

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001769 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ONLINE PDF ASSISTANT WITH DICTIONARY INTEGRATION

(51) International classification :G06F0040174000, G06F0040169000, G06F0040134000, G06F0040300000, G06F0040242000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MARWADI UNIVERSITY

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)MR. PARTH PARMAR

3)DR. ANJALI DIWAN

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MR. PARTH PARMAR

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

2)DR. ANJALI DIWAN

Address of Applicant :MARWADI UNIVERSITY, RAJKOT-MORBI HIGHWAY, AT GAURIDAD, RAJKOT – 360003, GUJARAT, INDIA Rajkot -----

(57) Abstract :

Online PDF Assistant with Dictionary Integration Abstract Disclosed herein a web-based application specifically designed to augment the user experience with Portable Document Format (PDF) documents. At the core of said application is a dictionary integration module that provides on-demand definitions and translations for words or phrases encountered within the PDF documents. Similarly, a real-time translation engine is capable of translating the content of PDF documents into various languages. Additionally, the application boasts a highly intuitive document navigation interface, which simplifies tasks such as zooming searching content, and the like. An advanced annotation module enables users to effectively highlight, annotate, and mark specific sections or text for reference or collaboration. The user interface of the application is meticulously designed to ensure seamless interaction with the PDF documents. Fig. 1

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001783 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SOLAR-POWERED GREENHOUSE MANAGEMENT SYSTEM WITH GSM TECHNOLOGY FOR REMOTE CONTROL AND AUTONOMOUS OPERATION WITHOUT INTERNET CONNECTIVITY

<p>(51) International classification :H04W0004140000, G06Q0010080000, E04H0001120000, H04W0004380000, F21S0009030000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Vijay Dadasaheb Katkar Address of Applicant :Hon. Shri. Annasaheb Dange Ayurved Medical College, Post Graduate & Research Center, Ashta, Walwa, Sangli 416 301 Maharashtra, India. -----</p> <p>2)Dr. Riman Mandal 3)Dr Vikram Patil 4)Dr. Archana Chougule Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Vijay Dadasaheb Katkar Address of Applicant :Hon. Shri. Annasaheb Dange Ayurved Medical College, Post Graduate & Research Center, Ashta, Walwa, Sangli 416 301 Maharashtra, India. -----</p> <p>2)Dr. Riman Mandal Address of Applicant :Hon. Shri. Annasaheb Dange Ayurved Medical College, Post Graduate & Research Center, Ashta, Walwa, Sangli 416 301 Maharashtra, India. -----</p> <p>3)Dr Vikram Patil Address of Applicant :Hon. Shri. Annasaheb Dange Ayurved Medical College, Post Graduate & Research Center, Ashta, Walwa, Sangli 416 301 Maharashtra, India. -----</p> <p>4)Dr. Archana Chougule Address of Applicant :Hon. Shri. Annasaheb Dange Ayurved Medical College, Post Graduate & Research Center, Ashta, Walwa, Sangli 416 301 Maharashtra, India. -----</p>
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(57) Abstract :

The presented innovation introduces a greenhouse management system grounded in digital twin technology, functioning autonomously without dependence on internet connectivity. The system is primarily designed to tackle challenges prevalent in rural areas characterized by unreliable internet and electricity supply. Its core components include multiple environmental sensors, an Arduino microcontroller, a GSM module, and a solar-powered battery. Environmental sensors strategically deployed within the greenhouse continually monitor various parameters, transmitting the acquired data to the Arduino microcontroller. This microcontroller, in turn, interfaces with the GSM module to dispatch the data to a smartphone through Short Message Service (SMS). This digital twin allows users to remotely visualize and interact with the greenhouse environment. Users further possess the capability to transmit control signals to the Arduino system via SMS, facilitating real-time adjustments to the greenhouse environment. Crucially, the entire system, encompassing the Arduino microcontroller, environmental sensors, and the GSM module, relies on a solar-powered battery for sustained functionality. This solar-powered configuration ensures both the sustainability and continuous operation of the system, even in regions with inconsistent electricity supply. In summary, the proposed greenhouse management system, grounded in digital twin technology, stands as an autonomous solution addressing challenges in rural areas. Its utilization of advanced components, coupled with solar energy sustainability, presents a scientific and efficient approach to greenhouse management, promising transformative impacts on agricultural practices in resource-constrained regions

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421001798 A

(19) INDIA

(22) Date of filing of Application :10/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND APPARATUS FOR STRAIGHTENING ANTERIOR TEETH: AN AUXILIARY TORQUE DEVICE

(51) International classification :A61C11/00, A61C7/00,
A61C7/14
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr Siddharth Sonwane

Address of Applicant :38A Galli No.1 Suryuday Nagar
Fulmati layout Beltarodi Road, Nagpur -----

2)Shweta Siddharth Sonwane

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr Siddharth Sonwane

Address of Applicant :38A Galli No.1 Suryuday Nagar Fulmati
layout Beltarodi Road, Nagpur -----

2)Shweta Siddharth Sonwane

Address of Applicant :Plot no 38A, Suryodaya Nagar, Fulmati
Layout, Beltarodi Road, Nagpur Nagpur -----

(57) Abstract :

The invention titled Method and Apparatus for Uprighting Anterior Teeth: An Auxiliary Torque Device pertains to a groundbreaking solution in the field of orthodontics. The auxiliary device addresses the persistent issue of inadequate torque expression in existing bracket systems, with a distinctive emphasis on mandibular anterior teeth. Recognizing the heightened torque demands of these teeth in comparison to their maxillary counterparts, the invention presents a unique contribution to orthodontic practices. Additionally, the invention acknowledges the proclination challenge associated with growth modification through functional appliances, filling a gap in existing technologies. The proposed auxiliary torque device introduces a simultaneous uprighting mechanism, coupled with a strategic approach to reduce treatment duration. This departure from conventional methods aims to expedite treatment processes, minimizing patient discomfort. The inventive combination of addressing torque expression and proclination challenges in a singular auxiliary device establishes the originality and novelty of this proposed solution within the realm of orthodontics. The auxiliary torque device stands as a pioneering innovation, providing a comprehensive and efficient approach to orthodontic torque correction and tooth uprighting, particularly in mandibular anterior teeth.

No. of Pages : 26 No. of Claims : 9

(54) Title of the invention : A SYSTEM AND METHOD FOR FORMAL ALGEBRAIC STRUCTURE ASPECTS AND ALGORITHMS IN CRYPTOLOGY

<p>(51) International classification :H04L0009300000, H04L0009080000, H04L0009000000, H04L0009060000, G06F0021750000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kavita Karamblkar Address of Applicant :Head of Department IT/CS, Achievers College & B.K.Birla College, Kalyan, Thane, Maharashtra, India. ----- 2)R L Narayanacharyulu 3)Dr.A.Thangam 4)P.Devie Abirami 5)Dr Lalit Mohan Trivedi 6)Somasundaram k 7)Murugan V P 8)S. Revathi 9)Saad Ahmed Alnuaimi 10)Dr Animesh Kumar Sharma 11)Dr. S. Sudhakar Reddy 12)Anshi Mishra Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Kavita Karamblkar Address of Applicant :Head of Department IT/CS, Achievers College & B.K.Birla College, Kalyan, Thane, Maharashtra, India. ----- 2)R L Narayanacharyulu Address of Applicant :Assistant Professor, Department of Mathematics, Velagapudi Ramakrishna Siddhartha Engineering College, Kanuru Vijayawada, Andhra Pradesh, Pin-520007 India. ----- 3)Dr.A.Thangam Address of Applicant :Department of Mathematics, Pondicherry University Community College, Pondicherry ----- 4)P.Devie Abirami Address of Applicant :Assistant Professor, Department of Mathematics, Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore, Tamilnadu, India. ----- 5)Dr Lalit Mohan Trivedi Address of Applicant :Dept of ASH, Moradabad Institute of Technology, Moradabad, Uttar Pradesh 244001, India. ----- 6)Somasundaram k Address of Applicant :Assistant Professor, Department of Information Science and Engineering, Bannari Amman Institute of Technology, Sathyamangalam, Erode – 638401, Tamilandu, India. ----- 7)Murugan V P Address of Applicant :Assistant Professor Mathematics, Panimalar Engineering College, Tiruvallur, Chennai – 600123, Tamilnadu, India. ----- 8)S. Revathi Address of Applicant :Assistant Professor/ Computer Science and Engineering, Erode Sengunthar Engineering College, Erode, 638057, Tamilnadu, India. ----- 9)Saad Ahmed Alnuaimi Address of Applicant :Assistant Professor, Department of Business Administration, Cihan University - Duhok, Duhok, Kurdistan Region Iraq ----- 10)Dr Animesh Kumar Sharma Address of Applicant :Assistant Professor, Department of Mathematics, The ICFAI University Raipur, Chhattisgarh, 492001, India. ----- 11)Dr. S. Sudhakar Reddy Address of Applicant :Professor, Department of Mathematics, Sri Venkateswara College of Engineering (Autonomous), Tirupati, Andhra Pradesh, India. ----- 12)Anshi Mishra Address of Applicant :Trainer/School of lifelong learning/Galgotias University, Greater Noida, Uttar Pradesh, India. -----</p>
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(57) Abstract :
A SYSTEM AND METHOD FOR FORMAL ALGEBRAIC STRUCTURE ASPECTS AND ALGORITHMS IN CRYPTOLOGY A method for the development of a cryptology, since its advent as an art, art of secret writing, has slowly evolved and changed, above all since the middle of the last century. It has gone on to obtain a more solid rank as an applied mathematical science. We want to propose some annotations in this regard in this paper. To do this, and after reviewing the broad spectrum of methods and systems throughout history, and from the traditional classification, we offer a reordering in a more compact and complete way by placing the cryptographic diversity from the algebraic binary relations. Our attacks are based on the linear or on the nonlinear decomposition method, which complete each other. We give a couple of examples of systems and protocols known in the literature that use one of the two introduced schemes with their cryptanalysis. Mostly, these protocols simulate classical cryptographic schemes, such as Diffie–Hellman, Massey–Omura and ElGamal in algebraic setting. It is too soon to know which, if any, of these cryptosystems will ultimately be of practical use. But in the rapidly growing field of cryptography, it is worthwhile to continually explore new one-way constructions coming from different areas of mathematics. Perhaps some of the readers will contribute to the research that still needs to be done. This book is designed not as a comprehensive reference work, but rather as a selective textbook. FIG.1

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202424002317 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYRUP OF NUTRACEUTICAL COMBINATION FOR THE TREATMENT OF CANCER PATIENTS

(51) International classification	:A61K0036324000, A61K0036190000, A61K0036185000, A61K0036906600, A61K0036906800	(71)Name of Applicant : 1)AMIT GAJANAN NERKAR Address of Applicant :Flat No. F-903, Eisha Bella Vista, S.No. 903, Behind Talab Company, Kondhwa Budruk, Pune-411048 ---- -----
(31) Priority Document No	:202421001121	Name of Applicant : NA
(32) Priority Date	:12/01/2024	Address of Applicant : NA
(33) Name of priority country	:-----	(72)Name of Inventor :
(86) International Application No	:NA	1)AMIT GAJANAN NERKAR
Filing Date	:NA	Address of Applicant :Flat No. F-903, Eisha Bella Vista, S.No.
(87) International Publication No	: NA	903, Behind Talab Company, Kondhwa Budruk, Pune-411048 ---- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The product contains the ethanolic extract of 500mg each in 450 ml of Syrup base of powder of following combination, packed in 500ml bottle in suitably flavored with edible flavors and syrup/ invert sugar base and with aluminum screw tamperproof screw cap. 1) Boswellia Serrata 500 mg 2)Calotropis Gigantea 500 mg 3) Curcuma Longa 500mg 4) Allium Cepa 500 mg 5) Zingiber Officinale 500mg 6) Terminalia Arjuna Bark 500mg 7) Kalmegh 500mg 8) Indian Mulberry (Noni) 500mg 9) Vinca plant 500mg The product is an invention of new formulation of the alcoholic extracts from the powder of these 9 constituents prepared from the whole plant including leaves, stems and roots and bark where specified in point 6 of this patent. Hence also, each 5 ml of the liquid syrup contains 9mg of each of the constituents approximately and at total of 4500mg in 500ml of the edible flavored syrup and alcoholic extract in the syrup/ invert sugar base for treatment of cancer Patients.

No. of Pages : 8 No. of Claims : 6

(54) Title of the invention : SMART HEALTHCARE ANALYTICS: FUZZY LOGIC APPROACH TO IDENTIFY PANDEMIC-PRONE DISEASES IN PRELIMINARY STAGES

<p>(51) International classification :G16H0040670000, G16H0010600000, G16H0040630000, A61B0005000000, G16H0050800000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Mansi Choudhary Address of Applicant :Associate Professor / Nursing Sri Aurobindo Institute of Medical Sciences College of Nursing, Sri Aurobindo University, Indore Ujjain state highway, Sanwer road, Indore, Madhya Pradesh, India. ----- 2)Dr.Anuradha.R.Kondelwar 3)Dr.M.Karthikeyan 4)Velladurai Narayanan 5)Dr K.Sivakumar 6)D Victorseelan 7)Mrs.TS. Arthi 8)Dr.Aarthi E 9)Dr Chithra. R. A 10)M.Poornima Devi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Mansi Choudhary Address of Applicant :Associate Professor / Nursing Sri Aurobindo Institute of Medical Sciences College of Nursing, Sri Aurobindo University, Indore Ujjain state highway, Sanwer road, Indore, Madhya Pradesh, India. ----- 2)Dr.Anuradha.R.Kondelwar Address of Applicant :Assistant Professor, Electronics and Telecommunication Priyadarshini College of Engineering, Nagpur, Near CRPF, Hingna Road, Nagpur-440019, Maharashtra, India. ----- 3)Dr.M.Karthikeyan Address of Applicant :Assistant Professor/EEE SRM Institute of Science and Technology, Ramapuram campus Bharathi salai, Chennai 600 089, Tamilnadu, India. ----- 4)Velladurai Narayanan Address of Applicant :Professor/Nursing Rohilkhand College Nursing, RMCH CAMPUS Pilibhit bypass road, Bareilly, Uttar Pradesh 243006, India. ----- 5)Dr K.Sivakumar Address of Applicant :Mathematics, SIMATS School of Engineering, Saveetha University, Chennai, Tamilnadu, India. ----- 6)D Victorseelan Address of Applicant :PhD Research Scholar / Statistics Bharathiar University, Coimbatore, Tamilnadu, India. ----- 7)Mrs.TS. Arthi Address of Applicant :Assistant Professor/Computer Science & Engineering, Galgotias College of Engineering and Technology Greater Noida, Uttar Pradesh, India. ----- 8)Dr.Aarthi E Address of Applicant :Assistant Professor / Department of Computer Science, Faculty of science and humanities, SRM institute of science and technology, Kattankulathur, Chennai, Tamilnadu, India. ----- 9)Dr Chithra. R. A Address of Applicant :Lecturer / College of Nursing King Khalid University, Tehama Branch, Kingdom of Saudi Arabia ----- 10)M.Poornima Devi Address of Applicant :Assistant Professor, Artificial Intelligence and Machine Learning, SNS College of Technology, Saravanampatti, Coimbatore – 641035, Tamilnadu, India. -----</p>
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(57) Abstract : SMART HEALTHCARE ANALYTICS: FUZZY LOGIC APPROACH TO IDENTIFY PANDEMIC-PRONE DISEASES IN PRELIMINARY STAGES A method of delivering information-enabled personalized healthcare in a clinical, non-research setting may include gathering one or more data streams, each of which is related to a patient's health. A system for monitoring health and monitoring includes a plurality of devices for analysis at the patient observation site, each with a fluid transfer device and a programmable processor; the external device is configured to exchange data with the plurality of devices; a static database component; and a dynamic database component. A healthcare organization server distributes diagnostic kits and health software to participating computer devices, logging user health data and registering contacts with other users through wireless interactions. The organization compares received data to data received from computing devices from a variety of other users to identify common occurrences. It permits the use of smart technologies for remote healthcare to protect public health. In light of this, the current study introduces a fuzzy logic-based smart and sustainable healthcare system for identifying Covid-19 patients based on their symptoms. FIG.1

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202421002805 A

(19) INDIA

(22) Date of filing of Application :15/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ALGORITHM FOR AN AUTONOMOUS TRASH COLLECTION AND SEGREGATION ROBOT

(51) International classification :B65F0001140000, B65F0001000000, B65F0001160000, B65F0003000000, B25J0009160000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Tony Michael

Address of Applicant :Kanchanganga Bungalow, Indira Nagar, Kothrud -----

2)Dr.Vishwanath Karad MIT WORLD PEACE

UNIVERSITY

3)Dr. Basavaraj S. Kothavale

4)Shravani Yadav

5)Mahesh Arun Jadhav

6)Omkar Chandrakant Suryawanshi

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Tony Michael

Address of Applicant :Kanchanganga Bungalow, Indira Nagar, Kothrud -----

2)Dr. Basavaraj S. Kothavale

Address of Applicant :S.No.124, Paud Road, Kothrud, Pune, 411038, Maharashtra, India -----

3)Shravani Yadav

Address of Applicant :Flat no. 13, Swapna Sakar Society, Left Bhusari Colony, Paud Rd., Kothrud, Pune, 411038, Maharashtra, India -----

4)Mahesh Arun Jadhav

Address of Applicant :Kaka Nagar,Karnal Road,Sangli 416 416, Maharashtra India -----

5)Omkar Chandrakant Suryawanshi

Address of Applicant :Karad-Chiplun Road,Suryawanshi Clinic Tal. Patan , Dist. Satara, 415206,Maharashtra India -----

(57) Abstract :

This presents an algorithm governing the operations of an autonomous trash collection and segregation robot. The algorithm orchestrates a methodical process that begins with environmental exploration, utilizing an ultrasonic sensor for waste detection. Upon identification, the robot triggers servo motors to operate its scooper, enabling precise retrieval of waste items. An essential feature is the robot's ability to distinguish between metallic and non-metallic waste, facilitated by a dedicated metal sensor. The robot integrates a segmented waste bin for metallic, dry, and wet waste, with servo motors ensuring precise alignment for effective segregation. When non-metallic waste is detected, a humidity sensor assesses moisture content, directing the waste to the wet or dry section as appropriate. This process continues until the bin reaches capacity, as monitored by an ultrasonic sensor, marking the successful conclusion of the robot's mission. The robot then awaits human intervention for the proper disposal of segregated waste, exemplifying an efficient waste management approach for urban environments that prioritizes meticulous waste segregation.

No. of Pages : 14 No. of Claims : 2

(54) Title of the invention : A NOVEL DESIGN OF AN INSTITUTE TO PROMOTE STARTUPS FOR COMMUNITIES USING LOCAL HERBAL RESOURCES

<p>(51) International classification :C07K0016100000, A61K0031713000, G09G0003340000, C03B0033033000, G06F0008410000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr. Jagtap Suresh Dnyandeo Address of Applicant :Department of Herbal Medicine, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Satara Road Pune 411046 Maharashtra, India -----</p> <p>2)Mr. Harsulkar Abhay Madhukar 3)Mr. Mungikar Rahul Ramesh 4)Miss. Jagtap Pujali Suresh 5)Mr. Vyavahare Suresh Ankush Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mr. Jagtap Suresh Dnyandeo Address of Applicant :Department of Herbal Medicine, Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University), Satara Road Pune 411046 Maharashtra, India -----</p> <p>2)Mr. Harsulkar Abhay Madhukar Address of Applicant :Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University) , Satara Road Pune 411046 Maharashtra, India -----</p> <p>3)Mr. Mungikar Rahul Ramesh Address of Applicant :Herbs Foundation A1-604, Dream City, Dattanagar, Ambegaon, Jambulwadi Road, Pune 411046 Maharashtra, India -----</p> <p>4)Miss. Jagtap Pujali Suresh Address of Applicant :Herbs Foundation A1-604, Dream City, Dattanagar, Ambegaon, Jambulwadi Road, Pune 411046 Maharashtra, India -----</p> <p>5)Mr. Vyavahare Suresh Ankush Address of Applicant :Shatayu Ayurved and Research Centre, Shubhari Tower, Datta Chouk, Solapur 413007 Maharashtra, India -----</p> <p>6)Mr. Bipinraj N. Kunchiraman Address of Applicant :Herbs Foundation A1-604, Dream City, Dattanagar, Ambegaon, Jambulwadi Road, Pune 411046 Maharashtra, India -----</p> <p>7)Miss. Narkhede Aarti Nilesh Address of Applicant :Interactive Research School for Health Affairs (IRSHA), Bharati Vidyapeeth (Deemed to be University) Satara Road Pune 411046 Maharashtra, India -----</p> <p>8)Mr. Nangare Ninad Bhagwan Address of Applicant :Collage of Ayurveda Bharati Vidyapeeth (Deemed to be University) Satara Road Pune 411046 Maharashtra, India -----</p>
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(57) Abstract :
The present invention relates to a novel design of an institute to promote startups for communities using local herbal resources. Further invention relates to process for preparation of novel design of an institute to promote startups for communities using local herbal resources.

No. of Pages : 12 No. of Claims : 2

(54) Title of the invention : FORMULATION AND EVALUATION OF ANTIFUNGAL SOAP USING TRACHYSPERMUM AMMI

<p>(51) International classification :A61P0031100000, A61K0036230000, A61Q0019100000, C11D0009380000, A61K0008340000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ms. Sravani Ravala Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 2)Mrs. Priyanka Amit Jadhav 3)Dr. Sandip Mohan Honmane 4)Mrs. Shubangi Ganesh Mote 5)Dr. Mahesh Govind Saralaya 6)Ms. Pranita Tanaji Gaikwad 7)Mr. Ajay Rajaram Mali 8)Ms. Nisha Mohan Jagtap Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Ms. Sravani Ravala Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 2)Mrs. Priyanka Amit Jadhav Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 3)Dr. Sandip Mohan Honmane Address of Applicant :Associate Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 4)Mrs. Shubangi Ganesh Mote Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 5)Dr. Mahesh Govind Saralaya Address of Applicant :Principal and Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 6)Ms. Pranita Tanaji Gaikwad Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 7)Mr. Ajay Rajaram Mali Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India ----- 8)Ms. Nisha Mohan Jagtap Address of Applicant :Assistant Professor, Annasaheb Dange College of B Pharmacy, Ashta, Walva, Sangli 416301 Maharashtra, India -----</p>
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(57) Abstract :
The present invention relates to formulation and evaluation of antifungal soap using herbal extract. Fungal infections of the skin are most common and their severity ranges from mild to extreme based on the type of infection. Superficial fungal infections and subcutaneous fungal infections are the two major types of fungal infections caused to the skin based on the layer of the skin of which the fungi affected. Most of the infections can be cured by using the herbal formulations as they are even having fewer side effects when compared to allopathic medicine. The current study is mainly based on the antifungal activity of the herbal extract from Trachyspermum ammi leaves which was later formulated into soap. Thymol, a monoterpene phenolic component present in the selected herb is having antifungal and antibacterial activity against Dermatophytes and yeast like Candida

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241062607 A

(19) INDIA

(22) Date of filing of Application :02/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING ALGORITHMS USING TOPOLOGICAL TECHNIQUES

(51) International classification :G01R0019250000, G16C0020300000, A61P0019080000, A61L0027180000, G16C0010000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NOTACEON TECHNOLOGIES PRIVATE LIMITED

Address of Applicant :PLOT NO 146-A, ROAD NO. 10, PRASHASAN NAGAR, JUBILEE HILLS, HYDERABAD, TELANGANA, INDIA, 500096 HYDERABAD -----

--

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRAVEEN VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

2)PRANEETH VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

(57) Abstract :

In one aspect, a method includes the step of applying specified cybernetics to an algorithm development process. The method includes using one or more algebraic topology principles for the generation or discovery of a new algorithm. The method includes generating a homological description of the new algorithm. The method includes providing the new algorithm as a list making algorithm.

No. of Pages : 37 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241063365 A

(19) INDIA

(22) Date of filing of Application :07/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR IMPLEMENTING BINARY ARRAYS

(51) International classification :G06F0003034600, B29C0064106000, H04W0092120000, B60W0030180000, B60W0010020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NOTACEON TECHNOLOGIES PRIVATE LIMITED

Address of Applicant :PLOT NO 146-A, ROAD NO. 10, PRASHASAN NAGAR, JUBILEE HILLS, HYDERABAD, TELANGANA, INDIA, 500096 HYDERABAD -----

--

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRAVEEN VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillelaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

2)PRANEETH VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillelaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

(57) Abstract :

In one aspect, a computerized method includes the step of obtaining a binary array, wherein the binary array is utilized for a subsequent set of operations. The method includes the step of performing a dissolution coding on the binary array to yield a one or more generating functions. The method includes the step of codifying the one or more generating functions as a branch-free program to yield an optimal packing of the binary array.

No. of Pages : 37 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241063919 A

(19) INDIA

(22) Date of filing of Application :09/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONCURRENT ACCESS TO A SHARED RESOURCE

(51) International classification :G06F0009460000, G06F0009540000, G06F0016230000, G06F0012084200, H01L0031048000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NOTACEON TECHNOLOGIES PRIVATE LIMITED

Address of Applicant :PLOT NO 146-A, ROAD NO. 10, PRASHASAN NAGAR, JUBILEE HILLS, HYDERABAD, TELANGANA, INDIA, 500096 HYDERABAD -----

--

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRAVEEN VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

2)PRANEETH VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

(57) Abstract :

In one aspect, a computerized method for scalable, correct, and high-performance asynchronous lockless sharing of a computer resource comprising: determining there is a contention for a shared computer resource by a plurality of competing processes, wherein the plurality of competing processes are competing to access a same portion of the shared resource; adding the plurality of competing processes a priority queue; retrieving a process at a front of the queue of the plurality of competing processes; access a work area of the process at a front of the queue; sharing the work area with other processes of the plurality of competing processes in priority queue; sanitizing the work area to obtain a plurality of code bundles; placing the code bundles into a patchpointer; and processing the patchpointer until the patchpointer is empty.

No. of Pages : 37 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241064293 A

(19) INDIA

(22) Date of filing of Application :10/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND APPARATUS FOR DISTRIBUTED SYNCHRONIZATION

(51) International classification :H04W0084180000, G06F0016270000, H04W0056000000, H04L0009320000, H04W0048180000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NOTACEON TECHNOLOGIES PRIVATE LIMITED

Address of Applicant :PLOT NO 146-A, ROAD NO. 10, PRASHASAN NAGAR, JUBILEE HILLS, HYDERABAD, TELANGANA, INDIA, 500096 HYDERABAD -----

--

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)PRAVEEN VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

2)PRANEETH VADDADI

Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

(57) Abstract :

In one aspect, a computerized system comprising: a plurality of nodes interlinked by uniform or non-uniform communication links, wherein each node of the plurality of nodes switches between a propagator mode of operation or non-propagator modes of operation; wherein a first node comprises a computerized synchronization system, wherein the computerized synchronization system synchronizes the data in the plurality of nodes and tracks of all events made on one or more local data units and synchronizes along with the identifiers of the plurality of nodes: a local data storage system that saves and retrieves a plurality of timestamps; a processor to perform basic atomic operations on the plurality of timestamps; an internal clock, wherein a time of the internal clock is modulated by a device; a device which receives messages and data and measures a time of reception and a control time of sending messages and data; a central controller to coordinate all the components in the device; a mode modulator that performs a propagator mode operational transition or a non-propagator mode operational transition; and an internal log that maintains a log of history of events and changes made within a node.

No. of Pages : 52 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241064590 A

(19) INDIA

(22) Date of filing of Application :11/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR DATA TRANSFER AND REQUEST HANDLING AMONG A PLURALITY OF RESOURCES

(51) International classification	:H04W0072040000, G06K0009000000, A61K0031485000, H04B0007185000, G06F0017180000	(71)Name of Applicant : 1)NOTACEON TECHNOLOGIES PRIVATE LIMITED Address of Applicant :PLOT NO 146-A, ROAD NO. 10, PRASHASAN NAGAR, JUBILEE HILLS, HYDERABAD, TELANGANA, INDIA, 500096 HYDERABAD ----- --
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)PRAVEEN VADDADI
Filing Date	:NA	Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----
(62) Divisional to Application Number	:NA	2)PRANEETH VADDADI
Filing Date	:NA	Address of Applicant :Plot No. 38, Old Gayatrinagar Colony, Road No. 2, Jillellaguda Meerpet PO, Hyderabad, Telengana, India. PIN: 500097 Hyderabad -----

(57) Abstract :

A computerized system of main controller that each node uses to process packets comprising: the main controller that each node uses to process packets, wherein the main controller comprises a plurality of receiving threads while receiving or transmitting a plurality of packets, and wherein when packets are received, a payload of the packet is placed per flow into a payload buffer, which notifies a suitable context queue by identifying a connection and a number of bytes received, and wherein the main controller further comprises: a policy controller configured to handle how and when a request for data and computation is performed, relayed, and cached, based on a localized cost estimation procedure, and a mode selector configured to calibrate a sending rate, a transmission window size, and a payload buffer size, based on a given choice complexity parameter that optimizes for a high throughput, a loss avoidance and a low latency.

No. of Pages : 64 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241071268 A

(19) INDIA

(22) Date of filing of Application :09/12/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD TO ESTIMATE CIRCUIT PERFORMANCE AT FUTURE NODES THROUGH TRANSFER LEARNING

(51) International classification	:G06N0020000000, G06N0003080000, G06N0003040000, G06N0005000000, G06N0020200000	(71)Name of Applicant : 1)International Institute of Information Technology, Hyderabad Address of Applicant :GACHIBOWLI, HYDERABAD-500032, TELANGANA, INDIA HYDERABAD ----- --
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Zia Abbas
Filing Date	:NA	Address of Applicant :IIITH Campus, Gachibowli, Hyderabad, Telangana, India - 500032 Hyderabad -----
(62) Divisional to Application Number	:NA	2)Deepthi Amuru
Filing Date	:NA	Address of Applicant :C202, Gayatri hills apartments, Prashant hills colony, Raidurgam, Hyderabad, Telangana, India - 500008 Hyderabad -----

(57) Abstract :

A system 100 for estimating a circuit performance using a transfer learning framework is provided. The system includes a first PVT variation estimation unit 106 and a second PVT variation estimation unit 110. The first PVT variation estimation unit generates a first PVT-aware dataset 102 of a circuit at a first technology node. A first machine learning model 104 is trained using a first PVT-aware feature set extracted from the first PVT-aware dataset. The second PVT variation estimation unit generates a second PVT-aware dataset of the circuit at a second technology node. A second machine learning model 114 is trained using a second PVT-aware feature set extracted from the second PVT-aware dataset. The first PVT variation estimation unit transfers knowledge from the first machine learning model 116 to the second machine learning model 122. The second PVT variation estimation unit estimates performance of the circuit at the second technology node. FIG. 1

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341053126 A

(19) INDIA

(22) Date of filing of Application :08/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : GLUCOSIDASE ENZYME PRODUCTION USING RUMINOCOCCUS ALBUS FROM CELLULOSE IN THE PAPER WASTE.

(51) International classification :C12N1/20, C12N9/14,
C12N9/24, C12P7/10

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date :NA

(62) Divisional to Application :NA

Number :NA

Filing Date :NA

(71)Name of Applicant :

1)Abilesh Ramesh

Address of Applicant :Department of Biotechnology,
Rathinam Technical Campus 641021 -----

2)Vaidevi Sethuraman

3)Divya Kennedy

4)Kumar Janakiraman

5)Saranya Thayanithi

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Abilesh Ramesh

Address of Applicant :Department of Biotechnology, Rathinam
Technical Campus 641021 -----

2)Vaidevi Sethuraman

Address of Applicant :Department of Biotechnology, Rathinam
Technical Campus Eachanari -----

3)Divya Kennedy

Address of Applicant :Department of Biotechnology, Rathinam
Technical Campus Eachanari -----

4)Kumar Janakiraman

Address of Applicant :Department of Biotechnology, Rathinam
Technical Campus Eachanari -----

5)Saranya Thayanithi

Address of Applicant :Department of Biotechnology, Rathinam
Technical Campus Eachnari -----

(57) Abstract :

Around 80% of the paper waste are dumped into the landfills that covers a mass of area. These papers contain 99% of cellulose which can be used as a source of substrate for the fermentation process. We developed a fermentation technique in which cellulose from the paper waste act as a main source of substrate through the enzyme glucosidase is fermented using the Ruminococcus albus. Overall, glucosidase enzyme manufacturing in large quantities is necessary to support a range of industrial operations, scientific projects, and commercial uses such as food and beverage, pharma, biofuel production and textile industry.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341054161 A

(19) INDIA

(22) Date of filing of Application :11/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SENSOR DEVICE FOR REAL-TIME CONDITION MONITORING AND AN OPERATING METHOD THEREOF

(51) International classification :G01H11/08, G01N29/04, G01N29/07, G01N29/14, G01N29/34, G01N29/44
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Xyma Analytics Private Limited

Address of Applicant :B4-01, 4th floor, B-Block, IITM Research Park, Taramani, Chennai – 600113, Tamil Nadu, India
Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Manish Reddy Papagari

Address of Applicant :Xyma Analytics Pvt. Ltd. B4-01, 4th floor, B-Block, IITM Research Park, Taramani, Chennai – 600113, Tamil Nadu, India Chennai -----

2)Nishanth Raja

Address of Applicant :Xyma Analytics Pvt. Ltd. B4-01, 4th floor, B-Block, IITM Research Park, Taramani, Chennai – 600113, Tamil Nadu, India Chennai -----

3)Akshay Vinod Hankare

Address of Applicant :Xyma Analytics Pvt. Ltd. B4-01, 4th floor, B-Block, IITM Research Park, Taramani, Chennai – 600113, Tamil Nadu, India Chennai -----

(57) Abstract :

A SENSOR DEVICE FOR REAL-TIME CONDITION MONITORING AND AN OPERATING METHOD THEREOF ABSTRACT
Present disclosure relates to sensor device and method for real-time condition monitoring. The sensor device comprises substrate, faceplate, piezoelectric crystal, and damping material. The substrate is coupled to target object and faceplate comprises first side and second side opposite to first side. The first side of faceplate is coupled to substrate and target object. Further, piezoelectric crystal comprises first side and second side opposite to first side. The first side of piezoelectric crystal is coupled to second side of faceplate and second side of the piezoelectric crystal is communicatively coupled to external circuit. The damping material is three-layered and disposed on second side of piezoelectric crystal. The sensor device receives trigger signal from external electrical circuit and transmits echo signal reflected from target object to external electrical circuit for obtaining an A-scan signal. Present disclosure provides solution for real-time condition monitoring of industrial applications to avoid catastrophic failures. Figure 1

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341058328 A

(19) INDIA

(22) Date of filing of Application :31/08/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : STAGNANT RAIN WATER SUCTION AND COLLECTING E-VEHICLE CARRIER

<p>(51) International classification :E01H1/00, E01H1/10</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Kalasalingam Academy of Research and Education Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil Srivilliputtur (via) Virudunagar (dt) Tamilnadu India 626126 -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.S. SHASI ANAND Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil Srivilliputtur (via) Virudunagar (dt) Tamilnadu India 626126 -----</p> <p>2)Dr.P. JAYAKUMAR Address of Applicant :Kalasalingam Academy of Research and Education, Anand Nagar, Krishnankoil Srivilliputtur (via) Virudunagar (dt) Tamilnadu India 626126 -----</p>
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(57) Abstract :

The present invention Stagnant Rain Water Suction and Collecting E-Vehicle Carrier is a device that will provide an easy and better solution for removing stagnant water in any stadium like places and making it to be dried quickly. The invention is fitted with suction nozzles [5] at the bottom of the tank that is, lying behind the water tank. The suction nozzles [5] will completely suck the water present in the ground, and this feature assists the ground to get dried in a quick manner. The suction nozzles [5] are connected to water suction pipes [4] and these pipes will drain the collected water inside the water collecting tank [3]. This suction process is done with the assistance of water suction pump [6] fitted at the top region of the water collecting tank [3] When sufficient amount of water is collected inside the tank the water is drained at the appropriate place by opening the overflow outlet [7] present near the wheels [2].

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341063003 A

(19) INDIA

(22) Date of filing of Application :19/09/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD TO SENSE AND MEASURE OCEAN CURRENT USING INTEGRATED LOAD CELL IN A DATA BUOY

(51) International classification :A61B0005000000, B63B0022000000, B63B0022180000, B63B0021000000, G01L0001220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)
 Address of Applicant :Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post Chennai -----

2)NATIONAL INSTITUTE OF OCEAN TECHNOLOGY (NIOT)
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Boby George
 Address of Applicant :Industrial Consultancy & Sponsored Research (IC & SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai – 600 036 Chennai -----

2)M.A. Atmanand
 Address of Applicant :Industrial Consultancy & Sponsored Research (IC & SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai – 600 036 Chennai -----

3)Biswajit Haldar
 Address of Applicant :Industrial Consultancy & Sponsored Research (IC & SR), Indian Institute of Technology Madras, Sardar Patel Road, IIT Post, Chennai – 600 036 Chennai -----

4)K. Thirumurugan
 Address of Applicant :National Institute of Ocean Technology, Ministry of Earth Sciences, Government of India, Velachery-Tambaram Main Road, Pallikaranai, Chennai – 600 100 Chennai -----

5)M. Arul Muthiah
 Address of Applicant :National Institute of Ocean Technology, Ministry of Earth Sciences, Government of India, Velachery-Tambaram Main Road, Pallikaranai, Chennai – 600 100 Chennai -----

6)Tata Sudhakar
 Address of Applicant :National Institute of Ocean Technology, Ministry of Earth Sciences, Government of India, Velachery-Tambaram Main Road, Pallikaranai, Chennai – 600 100 Chennai -----

(57) Abstract :

The present invention provides a system and method to measure surface ocean currents during extreme oceanic conditions using an integrated load cell (112) in the mooring line of a data buoy. The present invention provides a load cell (112) as a sensing device. The present system comprises a data buoy with a hull (104) moored in an ocean environment, a mooring line attached to the data buoy, comprising a load cell (112) integrated therein. The load cell (112) is configured to measure the effecting mooring load and provides accurate measurements of ocean currents. The method in the present invention involves integrating a load cell (112) into a mooring line of a data buoy system, positioning the load cell (112) close to the buoy to measure the effective mooring load, monitoring the load cell (112) measurement to estimate surface current. (Figure to be published along with abstract: Figure 1).

No. of Pages : 32 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341063656 A

(19) INDIA

(22) Date of filing of Application :22/09/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : FABRICATION OF MICROWAVE-SINTERED KAOLIN-REINFORCED ALUMINIUM COMPOSITE FOR TWO-WHEELER BRAKE DISC A

<p>(51) International classification :F16D0069020000, B32B0015010000, B33Y0010000000, C22C0038120000, C09C0001420000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Vavilada Venkatesh Address of Applicant :D-No:1-31, Voolapalli, Bikkavolu Mandal, East Godavari District, Andhra Pradesh-533343, INDIA - -----</p> <p>2)Rajamalla Narasimha Rao Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Vavilada Venkatesh Address of Applicant :D-No:1-31, Voolapalli, Bikkavolu Mandal, East Godavari District, Andhra Pradesh-533343, INDIA ----- -----</p> <p>2)Rajamalla Narasimha Rao Address of Applicant :Professor, Mechanical Engineering, National Institute of Technology Warangal, Hanamkonda, Telangana-506004, India -----</p>
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(57) Abstract :

The aluminium composite was synthesized through microwave assisted sintering technique by reinforcing naturally available kaolin clay. The collected kaolin was oven dried for 2 h to 'evaporate the moisture content. The composite powders were loaded in the H-13 steel die and compacted by applying 10 MPa pressure to initiate the cold welding among the .composite powders. The compacts were microwave sintered for 30 min at 550 °C. The developed composite shows the maximum hardness of 145 VHN and compression strength of 279 MPa for the 15 wt% Kaolin reinforcement. The minimum wear rate and coefficient of friction of 0.00246 mm³/m and'0.32 were obtained at 15 wt% kaolin in aluminium matrix. The developed Al- 15 wt% Kaolin composite exhibits the superior properties which can Be suitable for the replacement of the existed cast iron and chromium steel brake discs in two wheelers.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341064510 A

(19) INDIA

(22) Date of filing of Application :26/09/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : PID CONTROLLER FOR INSULIN PUMP IN CHRONIC DIABETIC PATIENT

(51) International classification :A61B5/145, A61M5/14, A61M5/142, A61M5/172, G05B11/36, G05B11/42, G05B13/02, G16H20/17

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.R.Harikumar

Address of Applicant :Professor, Department - of Electronics and Communication Engineering, Bannari Amman' Institute of Technology, Sathyamangalam: 638 401, Erode-District, Tamil Nadu and India -----

2)Dr.C.GaneshBabu

3)Dr.M.Kalaiyarasi

4)Dr.Sannasi Chakravarthy S R

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.R.Harikumar

Address of Applicant :Professor, Department - of Electronics and Communication Engineering, Bannari Amman' Institute of Technology, Sathyamangalam: 638 401, Erode-District, Tamil Nadu and India -----

2)Dr.C.GaneshBabu

Address of Applicant :Professor, Department of Electronics and 'Instrumentation Engineering, Bannari Amman Institute of Technology, Sathyamangalam- 638 401, Erode-District, Tamil Nadu and India -----

3)Dr.M.Kalaiyarasi

Address of Applicant :Assistant Professor 111, Department of Electronics and Instrumentation Engineering, Bannari Amman Institute of Technology, Sathyamangalam- 638 401, Erode-District, Tamil Nadu and India -----

4)Dr.Sannasi Chakravarthy S R

Address of Applicant :Associate Professor; Department of Electronics and Chakravarthy S R Communication Engineering, Bannari Amman Institute' ' of Technology, Sathyamangalam- 638 401, Erode-District, Tamil Nadu and India -----

(57) Abstract :

I) The blood glucose level is measured in a non invasive method of Photoplethysmography using a photoglucometer

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341066056 A

(19) INDIA

(22) Date of filing of Application :03/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : MACROTYLOMA UNIFLORUM PROTEIN EXTRACT MEDIATED VEGAN NUTRIENT AGAR TO CULTURE ENTEROBACTERALES PREPARATION AND USES THEREOF

(51) International classification :C12N0001200000, C12Q0001689000, C12N0001140000, A61P0029000000, A61K0035740000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chettinad Academy of Research and Education

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

2)S Jeyendrasaraswathi

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Priyadarshini Shanmugan

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

2)Alice Peace Selvabai R

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

3)Abitha Evangelin A

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

4)John Maria Louis P

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

5)Perumal Jayaraman

Address of Applicant :Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu district, Tamil Nadu-603103, India Kelambakkam -----

(57) Abstract :

The current invention in the field of microbiology introduces a novel vegan based medium to support the growth of non-fastidious bacteria belonging to the family Enterobacterales. This medium is prepared using the protein extracted from a simple plant source Macrotyloma uniflorum (horse gram). This protein is substituted for the peptone, an enzymatic digest of animal protein which remains to be expensive and does not involve the use of animals. This vegan based medium was simple to prepare, cost-effective and it supports the growth of the bacteria belonging to Enterobacterales. Internal quality check for this medium performed using ATCC strains like Escherichia coli & ATCC Staphylococcus aureus was also found to be satisfactory. This medium also encourages the grown of bacterial pathogens obtained from clinical samples like urine. Therefore, this vegan based medium due to its promising characteristics in promoting the growth of bacterial isolates can be used as a cost-effective bacterial culture medium

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341072218 A

(19) INDIA

(22) Date of filing of Application :23/10/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : DATA STORAGE AND OPTICAL COMPUTING UTILIZING NEW OPTICALLY STIMULATED LUMINESCENCE (OSL) PHOSPHORS

(51) International classification :G01T0001100000, G01T0001105000, G11B0007004500, G11B0007245000, G11B0007000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SAVEETHA ENGINEERING COLLEGE
 Address of Applicant :Saveetha Engineering College
 SAVEETHA NAGAR, THANDALAM, KANCHEEPURAM-602105. selvim@saveetha.ac.in 7338805843 044-66726677 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Arunachalam Lakshmanan
 Address of Applicant :Professor, Department of Physics, Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai — 602 1 05 TamilNadu, India. -----
2)Dr. M. Selvi
 Address of Applicant :Professor, Department of ECE, Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai — 602105 TamilNadu, India. -----
3)Dr. L.Sangeetha
 Address of Applicant :Assistant Professor, Department of Physics, Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai — 602105 TamilNadu, India. -----
4)Varalakshmi
 Address of Applicant :Research Scholar, Department of Physics Saveetha Engineering College, Saveetha Nagar, Thandalam, Chennai — 602105 TamilNadu, India. -----

(57) Abstract :
 Optical storage provides greater memory capacity because laser beams can be controlled and focused much more precisely thereby enabling the condensation of data into a much smaller space. Optically stimulated luminescence (OSL) has a unique feature of controllable storage and release of charge carriers that finds promising application in erasable ODS. In certain OSL phosphors, under UV irradiation, the excited carriers are steadily stored in the deep traps for a sufficiently long time corresponding to optical writing and optical storage of data, and then a part or all of the stored carriers are stimulated by infrared light for emitting OSL as optical reading or optical clearing of data. It is claimed to synthesize indigenously an optically stimutable luminescent (OSL) material of low cost with a single dopant having high sensitivity capable of writing, reading and erasable mechanism optically. After demonstrating the above process, multilevel traps can be realized with multiple dopants so as to store information sequentially in different traps. Currently available blue ray disc has a pit size of 0.15 micron. With OSL, it is proposed to achieve a pixel size of 50 nm to realize high-density storage medium with appropriate technique. Along with the increase in storage capacity, it is proposed to realize optical functions/operations using OSL.

No. of Pages : 5 No. of Claims : 6

(51) International classification :G10L0015260000, G10L0013027000, G09B0021000000, H04R0003000000, G10L0013080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)BVRIT HYDERABAD College of Engineering for Women
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
2)N. M. Sai Krishna
3)R Priyakanth
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)N.M.Sai Krishna Kumar
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
2)R Priyakanth
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
3)C Srinika Sharma
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
4)K Deepika
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
5)A Chithra Bhanu
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
6)P Indu
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
7)K Chandra Hasini
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
8)K . Mahesh Babu
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
9)G Sreenivasarao
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
10)J. Hemasree
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----
11)Shaba Banu Shaik
 Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

(57) Abstract :
 Disclosed is a system (100) and a method for visually impaired transcription. An input unit (106) is configured to receive one or more documents. The processing circuitry (108) is configured to convert a first set of text elements into a first set of audio signals. The processing circuitry (108) further converts a second set of audio signals into a second set of text elements. The storage unit (112) is configured to store (i) the first set of audio signals, (ii) a voice print, and (iii) the second set of text elements. The review unit (114) is configured to (i) facilitate the user to listen to the first set of audio signals (ii) facilitate the user to listen to the voice print signals and (iii) facilitate the user to change the response to the one or more questions based on the voice print. FIG. 1 is the reference figure.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341076498 A

(19) INDIA

(22) Date of filing of Application :08/11/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ENHANCING SAFETY OF A DRIVER

(51) International classification :G05B0019042000, G05B0023020000, H02J0050800000, A61B0005020500, H02J0003380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BVRIT HYDERABAD College of Engineering for Women

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

2)N. M. Sai Krishna Kumar

3)R Priyakanth

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)N.M. Sai Krishna Kumar

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

2)R Priyakanth

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

3)Murali Nath R S

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

4)B Sita Swapnika

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

5)Manasa Chalasani

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

6)Sesha Satya Priyanka Maddimsetty

Address of Applicant :BVRIT HYDERABAD College of Engineering for Women, 8-5/4, Nizampet Rd, Bachupally Opposite Rajiv Gandhi Nagar Colony, Hyderabad, Telangana, 500090, India Hyderabad -----

(57) Abstract :

Disclosed is a data processing apparatus (106) which includes processing circuitry (120). The processing circuitry (120) receives the first through fifth set of signals representing first through fifth set of parameters, respectively. The processing circuitry (120) further compares the first through fifth set of parameters with the respective predefined threshold parameter. Furthermore, the processing circuitry (120) generates first through fifth alert signals when one of, the first through fifth set of parameters are beyond the respective predefined threshold parameter. Furthermore, the processing circuitry (120) generates, upon generation of the first through fifth alert signals, one or more notifications for one of, one or more authorities and a driver of a vehicle and one or more control instructions associated to the vehicle. FIG. 2 is the reference figure.

No. of Pages : 33 No. of Claims : 15

(54) Title of the invention : UNVEILING THE POTENTIAL: EXPLORING NOVEL PLANT - BASED PROTEIN SOURCES FOR INNOVATIVE PLANT-BASED FOOD PRODUCTS

<p>(51) International classification :A23L0015000000, A23L0033000000, A23L0025000000, A23J0001140000, A23J0003220000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Gowrishankar L Address of Applicant :60/259, ROYAL THEATRE II STREET, BHAVANI, ERODE, TAMILNADU-638301. ----- 2)Harish V 3)Asmitha N P Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Gowrishankar L Address of Applicant :60/259, ROYAL THEATRE II STREET, BHAVANI, ERODE, TAMILNADU-638301. ----- 2)Harish V Address of Applicant :146/1, THILLAI NAGAR, Punjai Puliamatti, Erode, Tamil Nadu, India-638459. ----- 3)Asmitha N P Address of Applicant :52/13, Forest Depot East street, Sathyamangalam, Erode, Tamil Nadu, India-638401. ----- 4)Prathikavarsa A S Address of Applicant :184/3, Sakthi nagar, Rasampalayam, Erode, Tamilnadu, India-638151. ----- 5)Sneha R G Address of Applicant :12/191G, CSI Church street, Sirumugai, Coimbatore, Tamilnadu, India-641302. ----- 6)Srimathi S Address of Applicant :5/178, Sowriyur Avadathur village, Mettur, Salem, Tamilnadu, India-636501. ----- 7)Amirthapriyan K C Address of Applicant :15/8, Pullipadayathar Thotam, Salem, Tamilnadu, India-636354. ----- 8)Vijav Anandan G V Address of Applicant :9/92-3, Siddiredipalayam, Anthiyur,,Erode, Tamilnadu, India-638314. -----</p>
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(57) Abstract :

In the food industry, vegan eggs are becoming increasingly recognized and prominent. Vegan eggs are typically plant-based substitutes for regular eggs that are made using materials including legumes, grains, starches, and other plant-based components. These substitutes are intended to resemble the flavor, feel, and functionality of eggs. The drawback of vegan eggs is that they lack the same nutritional value and texture as regular eggs. The flavour and nutritional composition of eggs are well-known. It might be difficult to find vegan egg alternatives with a similar nutrient profile of vitamins (including B12 and D), minerals, and important fatty acids. Replicating the texture and flavour of regular eggs is one of the main problems in developing vegan egg alternatives. This research aimed to create a plant-based alternative to regular chicken eggs, offering higher protein, essential vitamins, and minerals. It involved sourcing protein-rich plant sources, fortifying with vitamins and minerals, and maintaining a balanced nutrient profile. This was done by utilizing widely accessible and viable resources such as SP1, chickpea, mung bean, horse gram, aquafaba, thickeners, and emulsifiers. After the hard-boiled vegan egg was developed, nutritional and textural analysis was carried out. The result provides a plant-based substitute with comparable protein (11.86%), fat (14%), minerals (5.5%) and vitamins to chicken eggs, this additionally contains fibre (3.2%) allowing a plant-based diet and dietary constraints. The moisture content (29.05%), water activity (0.986 aw) and colour was also analysed. This vegan egg had similar textural properties and higher protein content, improved mouthfeel than existing hard-boiled vegan egg. **KEYWORDS:** Balanced nutrient profile, plant-based alternative, protein, soy protein isolate, vegan egg.

No. of Pages : 8 No. of Claims : 4

(54) Title of the invention : MOO3 NANORODS - AMOREDCAIT - A NANOCATALYST FACILITATING THE UNPRECEDENTED DEGRADATION OF METHYL RED DYE WITH OUTSTANDING EFFICACY

(51) International classification :C02F0001720000, C02F0101380000, G01N0021650000, B01J0037030000, D21H0021280000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CHRIST UNIVERSITY

Address of Applicant :HOSUR ROAD, BANGALORE, KARNATAKA, INDIA 560029. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AVANI A V

Address of Applicant :Department of Physics and Electronics, CHRIST (Deemed to be University), HOSUR ROAD, BANGALORE, KARNATAKA, INDIA 560029. -----

2)ANILA E I

Address of Applicant :Department of Physics and Electronics, CHRIST (Deemed to be University), Hosur Road, Bangalore, Karnataka, India-560029. -----

(57) Abstract :

Methyl red, an azo compound, is a hazardous chemical extensively utilised as a laboratory indicator and in various applications such as textile dyeing and paper printing. Exposure to methyl red through ingestion, inhalation, or skin contact can cause skin and eye irritation, affecting the respiratory and digestive systems. Prolonged exposure may lead to central nervous system damage and organ toxicity. Improper disposal of methyl red into water bodies poses an environmental threat, impacting aquatic life and ecosystems. A highly effective orthorhombic M003 catalyst named as AMoRedCat, synthesized via a facile hydrothermal method, demonstrates significant potential for degrading methyl red dye. Typically, highly toxic dye degradation involves processes like photocatalysis, adsorption, electrochemical means, biodegradation, Fenton reaction, and ozonization. However, our proposed method offers a simple and efficient approach for complete methyl red degradation at room temperature with minimal catalyst and reduced time. In our investigation, the addition of 1 mg of catalyst into a 10 ml solution containing 10 ppm of dye led to the complete degradation of the dye (99.8%) within 3 hours without any external intervention: When agitation was applied to the solution, the degradation time decreased to 1.5 hours. Furthermore, elevating the temperature to 50°C resulted in rapid degradation within 1.5 Hours even without stirring. Notably, the dye solution displayed degradation tendencies at temperatures as low as 15°C. Augmenting the catalyst's mass also notably accelerated degradation. Hence, increase in mass of catalyst, temperature of dye solution containing catalyst and mechanical agitation significantly enhanced the degradation efficacy of the dye solution. X-ray diffraction (XRD) analysis substantiated that the residue obtained exclusively comprised M003, emphasising the advantageous prospect of recovering and reusing the catalyst for subsequent degradation processes. Basic characterization techniques, including XRD, Raman spectroscopy, and Zeta potential analysis, confirmed the structural, morphological, and surface properties of the catalyst. The orthorhombic phase was confirmed by XRD and Raman spectroscopy, and a negative surface charge was observed via Zeta potential analysis. Field emission scanning electron microscopy (FESEM) revealed nanorod-like morphology. UV-Vis analysis and photoluminescence spectroscopy provided optical insights, highlighting a wide bandgap value of 4.53 eV from the Tauc plot. Photoluminescence spectra indicated emission peaks attributed to transitions within the Mo defect state. XPS analysis validated the chemical state of M003 nanorods, identifying Mo 3d, Mo 3p, and O 1s elemental states. Notably, our study introduces a novel, simple degradation mechanism for methyl red without external agents, a methodology not reported previously. The catalyst's easy and cost-effective synthesis, along with its simple, efficient, and non-toxic degradation mechanism, suggests its potential for commercialisation. AMoRedCat stands as a promising candidate for sustainable water purification by effectively degrading methyl red dye.

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341085822 A

(19) INDIA

(22) Date of filing of Application :15/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : A PORTABLE PULSE OXIMETER APPARATUS FOR THE ASSESSMENT OF TOOTH VITALITY

(51) International classification :A61B1/24, A61B5/0534,
A61B5/1455, G01N21/17

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

1)KANAMARLAPUDI VENKATA SAIKIRAN

Address of Applicant :D. No: 27/1/604, Near Nalanda High School, Balaji Nagar, Nellore-2, Andhra Pradesh - 524002, India. Nellore -----

2)CHINTHALA MANASA

3)ELICHERL AHOBILA SAINATH REDDY

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KANAMARLAPUDI VENKATA SAIKIRAN

Address of Applicant :D. No: 27/1/604, Near Nalanda High School, Balaji Nagar, Nellore-2, Andhra Pradesh - 524002, India. Nellore -----

2)CHINTHALA MANASA

Address of Applicant :D. No: 27/1/604, Near Nalanda High School, Balaji Nagar, Nellore-2, Andhra Pradesh - 524002, India. Nellore -----

3)ELICHERL AHOBILA SAINATH REDDY

Address of Applicant :D. No: 7-1-507, Opposite to Water Tank, NGO Colony, Siddavatam Road, Badvel, Cuddapah, Andhra Pradesh - 516227, India. Badvel -----

(57) Abstract :

Aspects of the present invention relates to a non-invasive dental pulp vitality testing apparatus. More particularly, the proposed invention relates to a portable and custom-shaped pulse oximeter device for detecting and diagnosing vitality of the tooth. The device is configured with a U-shaped clip, which is well structured to hold the tooth firmly between its two arms/forks/tongs, wherein one of the arms holds a Light Emitting Diode (LED) that emits red and infrared wavelength and the other arm holds a Light Dependent Resistor (LDR). The absorbance and intensity of red and infrared lights are measured in the tooth, and the resultant ratio of absorbed red light to absorbed infrared light can be used to estimate the oxygen saturation (SPO2) levels. The photodetector's output is also connected to a microcontroller. This controller shows the SPO2 values on a screen and transmits them via Bluetooth.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341088148 A

(19) INDIA

(22) Date of filing of Application :22/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : HIGH POWER FIBER LASER DIODE CONNECTION WITH DROP CABLE FAST CONNECTOR

(57) Abstract :

HIGH POWER FIBER LASER DIODE CONNECTION WITH DROP CABLE FAST CONNECTOR, where bare end of high power laser diode is fused with high power fiber optic patch cable's bare-end using Process of optical fiber mechanical fusion splice\quick drop cable fast connector is useful for field installation, making it a convenient and practical solution for on-site applications and portable laser power source. The optical fiber mechanical fusion splice offers a quick and reliable connection for various fiber optic applications, with a unique usefulness that ensures optimal performance providing a reliable and efficient connection. In comparison to large diameter Splicing Fusion splicer machine in applications related to high power laser to connect diode bare-end with the high power fiber optic patch chord, by using mechanical fusion splicer reduces cost by 99.99%. Using the optical fiber mechanical fusion splice a Reusable & portable in high-power laser applications can be developed with Fiber cladding diameter 150-500µm, Fiber coating diameter 150-500µm.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341088724 A

(19) INDIA

(22) Date of filing of Application :26/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADVANCED EMBEDDED SENSOR BASED PEOPLE TEMPERATURE MONITORING SYSTEM IN PUBLIC PLACES

(51) International classification :G06F0012140000, H01L0023310000, A24F0040460000, G01K0011320000, A61K0008920000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CMR ENGINEERING COLLEGE
 Address of Applicant :DR.A. SRINIVASULA REDDY, PRINCIPAL, CMR ENGINEERING COLLEGE, KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. SHEO KUMAR
 Address of Applicant :CMR ENGINEERING COLLEGE, KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

2)Mr. K. VIJAYA BABU
 Address of Applicant :CMR ENGINEERING COLLEGE, 1 ,MEDCHAL ROAD KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

3)Mrs. M. PRASHANTHI
 Address of Applicant :CMR ENGINEERING COLLEGE, 1 ,MEDCHAL ROAD KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

4)MRS A. PUNITHA
 Address of Applicant :CMR ENGINEERING COLLEGE, 1 ,MEDCHAL ROAD KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

5)Mrs. B. MAMATHA
 Address of Applicant :CMR ENGINEERING COLLEGE, 1 ,MEDCHAL ROAD KANDLAKOYA, MEDCHAL, HYDERABAD, TELANGANA-501 401 -----

(57) Abstract :
 The majority of temperature estimations used to stop the spread of Covid-19 is made with'a bottle firearm, a hand thermometer with an infiaed sensor. It does have a defect that may be rectified with a brief period of seclusion from visitors or other people. This condition grants permission for trarission to check-running officials. Furthermore, it is done physically alone, which may inhibit people's progress. Temperature estimations will be conducted using a temperature sensor door to avoid'the 'spread of Covid-19.The adaptable axchitecture of this device allows for the study of internal heat level data- at specific regions using cloud-based supplier services Internet of .Things that are coordinated with device clinical help. After then, receiving main treatment is a possibility. The equipment architecture of this gadget contains an LED running text that displays a person's internal heat level continuously as well as a warning for internal heat levels that are projected to exceed the limit. The product setup use the Wi-Fi standard to handle sensor data for end users to access as a mobile or web application via the server cloud stage, which employs the HTTP Post standard.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000009 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CAR SAFETY SYSTEM WITH AIRBAG NOTIFICATION

<p>(51) International classification :G08B0025100000, G08B0021060000, G08B0025080000, G08B0025000000, H04W0004140000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MUTHAYAMMAL ENGINEERING COLLEGE, (AUTONOMOUS) Address of Applicant :MUTHAYAMMAL ENGINEERING COLLEGE, (AUTONOMOUS), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. P. MUTHUSAMY Address of Applicant :Professor: Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>2)Dr. N. NATARAJAN Address of Applicant :Professor and HOD, Department of Mechanical Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU. -----</p> <p>3)BOGGU NANDAKISHORE Address of Applicant :Student,Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>4)PETA GNANESHWAR REDDY Address of Applicant :Student,Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>5)ANANDHA KUMAR D Address of Applicant :Student,Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>6)ANUSHA R Address of Applicant :Student,Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>7)DINESH S Address of Applicant :Student,Department of mechanical Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>8)BANDLA SHANMUKHA. Address of Applicant :Student,Department of mechanical Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>9)KAPPALA AKASH Address of Applicant :Student,Department of mechanical Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p> <p>10)BILLY GRAHAM Y Address of Applicant :Student,Department of mechanical Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p>
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(57) Abstract :

The device is designed to illustrate a safety system for the car's driver. Three features allow it to alert or notify the appropriate person in the event that the car and its occupants are involved in unfortunate accidents. The first characteristic determines whether or not the car's driver is feeling sleepy while operating the vehicle. This is accomplished by employing a camera that the Raspberry Pi controls. The technology takes a picture of the driver and uploads it to the IoT page in order to notify other passengers about the driver's drowsiness if it detects that they are driving when they are sleepy. A vibration sensor, the second feature, may identify any jerks the car may experience following an incident or accident. The hospital and a police station, whose numbers will be registered at the system's launch, will receive a GSM alert notification in addition to the vibration detecting. The technology also includes an airbag that will inflate once an accident is detected. Electric air pumps are used to fill the airbag. The electric air pump will start up if the vibration sensor detects any jerks or tremors, filling the airbags to protect the passengers, and transmit a warning to the hospital and police station numbers using the user's SIM card and GSM module. The electric air pump also features a cut-off feature, which brings us to the hem feature. If the airbags are not opened promptly, this feature includes an SMS message to the police station. This is determined using a limit switch that is installed in the system and is only activated when the airbags are fully inflated. If this does not occur within a predetermined time window, the signal indicated above is delivered.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : FISHERMEN USING WIRELESS TRACKING WATER AND COMMUNICATION SYSTEM

(51) International classification :H04W0084180000, H04B0013020000, H04W0004900000, G06Q0010100000, G09G0005000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE, (AUTONOMOUS)
 Address of Applicant :Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)S. BHOOPALAN
 Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU. -----

2)RAMYA J
 Address of Applicant :Assistant Professor,Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

3)ASAM HARINATHA REDDY
 Address of Applicant :Student, Department Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

4)ABINAYA S
 Address of Applicant :Student, Department Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

5)AKASH K
 Address of Applicant :Student, Department Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

6)ANBUSELVAN P
 Address of Applicant :Student, Department Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

7)VELIDI SRIRAM CHOWDARY
 Address of Applicant :Student, Department of Computer Science and Engineering,, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

8)SIVARANJANI M
 Address of Applicant :Student, Department of Computer Science and Engineering,, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

9)MEIYARASU K
 Address of Applicant :Student, Department of Computer Science and Engineering,, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

10)BHARATHI S
 Address of Applicant :Student, Department of Computer Science and Engineering,, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

(57) Abstract :
 Underwater communication is the most challenging medium for data transmission. It is a result of its traits. Sound waves and optical signals are the two different types of communication now used in water; This study uses an EM method for data transmission in a water medium to overcome this. For data transmission, magnetic transmitter sources are used. The highest transmission rate will be guaranteed, and this technology is also more effective and affordable than the currently used ones. This; project also incorporates automation using GPS tracking capabilities. Our system aims to provide a technical mobile computing device that is easy to use and understand. To protect IMBL from crossing the maritime border at all costs and to support and raise their level of awareness. And ensure the lives of Indian fishermen are fully secure and safe' Several contemporary mobile computing methods must be used to do this task. WWSNS, have underwater—buried components, such as the sensors, and communicate via water. Most' ofthe uses of W WSNS include intelligent communications, environmental monitoring, and water. Emergency communications are received and sent to a centralized server or a fishem:m's boat W'a. the sea in this suggested system.

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : RESPIRATORY ASSISTIVE SYSTEM FOR ASTHMA PATIENTS USING THE CLOUD SERVER

(51) International classification :A61M16/00, G16H10/60, G16H40/67, G16H50/20

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE, (AUTONOMOUS)
 Address of Applicant :MUTHAYAMMAL ENGINEERING COLLEGE,(AUTONOMOUS), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)PRAGADEESWARAN S
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU -----

2)M SELVAKUMARI
 Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

3)T DHEEPU
 Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

4)K. JEEVA
 Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

5)R. JEEVANANDHAM
 Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

6)R. LAKSHANA
 Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----

7)R. MADHANRAJ
 Address of Applicant :Student, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. -----

8)S. HARIHARAN
 Address of Applicant :Student, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, -----

9)T. BHARATHKUMAR
 Address of Applicant :Student, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, -----

10)VISHWA P
 Address of Applicant :Student, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, -----

(57) Abstract :
 Among of the frequently diagnosed disorders is asthma. Growing illness occurrence enhances the workforce, economic burdens, and family and medical system burdens associated with managing individual diseases. Based on the Ministry of Health, there are more than 1 billion asthma victims globally. Considering the emergence of innovative medicines, outcomes for people with severe bronchial disorders remain low. This is due in part to low therapeutic compliance and the fact that therapists lack reliable tools for evaluating this problem. Digital technology has the potential to remove these care-related obstacles. In order to continuously constantly watch asthmatic sufferers, this study introduces an Internet of Things (101*) based portable device equipped with limited detectors and client gadgets as well as a mobile telecommunications network. However, one device is Simple Respire, which employs a variety of inexpensive detectors, the Text message app for alerting users, and Thingspeak for clinicians to further analyse the data at hand and tailor asthma patients' care.

No. of Pages : 14 No. of Claims : 5

(54) Title of the invention : INTELLIGENT DEVICE TO SURVEILLANCE THE PARAMETERS OF THE COMATOSE PATIENTS USING IOT TECHNOLOGY

<p>(51) International classification :A61B5/00, A61B5/01, A61B5/02, A61B5/026, A61B5/11, G08B21/04, G16H50/30, G16H80/00</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MUTHAYAMMAL ENGINEERING COLLEGE, (AUTONOMOUS) Address of Applicant :KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. J. RANGARAJAN Address of Applicant :Professor, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 2)BUVANESWARI M Address of Applicant :Assistant Professor, Department of Computer Science And Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 3)HARIPRASATH S Address of Applicant :Student, Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 4)NITHYA K Address of Applicant :Student,Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 5)SRAGUL R Address of Applicant :Student,Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 6)POOJA M Address of Applicant :Student,Department of Electronics and Communication Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMIL NADU, INDIA. ----- 7)T. SRIRAM Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU ----- 8)VENKATA HAREESH JAGARLAMUDI Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU ----- 9)K.VINEETH Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU ----- 10)MOHAMMED AJMALTHARIK A Address of Applicant :Student, Department of Computer Science and Engineering, Muthayammal Engineering College (Autonomous), KAKKAVERI (P.O), RASIPURAM-637408, NAMAKKAL DISTRICT, TAMILNADU -----</p>
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(57) Abstract :
Though we all aware, a comatose is a condition of unconsciousness during which the individual is unable to sense or react to discomfort, illumination, or noise, but this does not begin voluntary activities. People in a coma require regular monitoring of their hypertension, temp, moisture, and urinary flow. Keeping track of numerous medicare patients might be difficult if performed manually. To remedy this scenario, our case comes to the aid; our system can collect patient 's information using detectors. WIFI is used by these devices to transmit relevant data to the computer.Once we switch on the device, it connects to the internet through WIFI. The framework system displays four indicators: pulse rate, heat, moisture, and urine discharge. During evaluating the program's pulse rate functionality, the blood pressure and heart rate values axe displayed on the IOT and Liquid crystal displays. Because an unconscious person cannot urinate on their themselves, a rubber tubing is put into their abdomen to eliminate urine. When the patient un'nates, this equipment examines the urine levels and displays the information on the Mobile applications and Display.If somehow the sufferer reclaims awareness and tries to motion, the system will detect the movement and transmit it to the Connectivity and Display. Our technology examines the unconscious individuals in this technique.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000022 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTERNET CONTROLLED DIGITAL SPEEDOMETER WITH SPEED LIMIT CONTROLLER VIA SECURED AUTHENTICATION

<p>(51) International classification :G01P0001110000, G01P0003495000, G01P0001100000, B60Q0001540000, B60K0037020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) Address of Applicant :KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. LAVANYA S Address of Applicant :PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>2)Dr. S. SUNDARAM Address of Applicant :PROFESSOR & DEAN RESEARCH, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>3)LINGUTLA SAI NITISH Address of Applicant :STUDENT, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>4)MADINENI MANI KISHORE Address of Applicant :STUDENT, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>5)M. SRIMANNARAYANA Address of Applicant :STUDENT, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>6)P. DEVI GAYATHRI Address of Applicant :STUDENT, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>7)P. TAMILSELVAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>8)G.RAMANA Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>9)P. PADMANABAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p> <p>10)P. POOVARASAN Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----</p>
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(57) Abstract :

Accidents are growing more frequent today, resulting in more individuals getting seriously hurt and some even losing their lives. First off, the majority of cars in both the past and present used analogue speedometers. The speeding needle on the speedometer displays the vehicle's speed. The middle of the speedometer is not exactly visible at night. Driving a car while paying attention to the speedometer increases the risk of having an accident; for this reason, we use digital speedometers. Second, excessive speeding is the primary cause of most collisions. As a result, this document describes a method for limiting the vehicle 's speed and offers a password for controlling the automobile 's speeds. Using the programme and giving the speedometer's secret key, we will reduce a machine 's speeds to 50%. Only the guardians of a registered keeper know the passcode; no other users are permitted to know it. The user needs parental authorization and a passcode if the car needs to move quickly. This system also uses IoT module to monitor the vehicle speed wirelessly.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000023 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FPGA BASED ROUTING OF DATA PACKETS IN 2D/3D NOC

(51) International classification :G06F0030394000, H04L0049250000, G06F0030300000, G06F0030392000, H04L0049400000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)
 Address of Applicant :KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. U. SARAVANAKUMAR
 Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

2)P. BASKAR
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. --

3)R. KAVIN
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

4)K. MANOGARI
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

5)G. PRIYADHARSINI
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

6)S. SINEKA
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

7)M. NANDHINI
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

8)S. SARAN
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

9)R. SASI KUMAR
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

10)C. MOHAN RAJ
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

(57) Abstract :
 Network-on- Chips have been touted as a viable option for future chip design technologies. It is more scalable than shared bus-based connectivity and enables the use of additional processors at the same time. Predictability is possible because the NoC has dedicated wires. An alternative 2D NoC with Wormhole switching and a Stall-and-Go flow control technique is what we came up with in this scenario. There are certain drawbacks to NoCs over shared-bus systems, such as high power consumption and expensive communication costs. 3D NoC is an expansion of the 2D NoC to address these issues. Detailed descriptions of the 3D NoC architecture and preliminary assessment findings are provided in this publication.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000025 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : FPGA BASED SOLID WASTE GARBAGE COLLECTING SYSTEM

(51) International classification :B65F0001140000, B65F0001000000, G06Q0050260000, B65F0009000000, B65F0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)
 Address of Applicant :KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. R. PRAVEENA
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. --

2)P. MANIKANDAN
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. --

3)V. ARASU
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

4)U. ARAVINDHAN
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

5)M. BALAMURUGAN
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

6)J. GOPIKA
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

7)R. VISWA
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

8)VENKATESAN M
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

9)SIVAKUMAR G
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

10)RANJITH S
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

(57) Abstract :
 Solid and efficient One of the most significant pans of a country's development is waste management. The purpose of this project is to use the Internet of Things and supervised learning techniques to produce an effective garbage management system. Among these include overflowing trash cans, a lack of storage capacity in collection vehicles, and a lack of knowledge regarding separate rubbish pickup. Residential users, collection truck drivers, and trash collection authorities can utilise the Easy Clean system to interact with the country's solid waste management in hospitals. This was achieved by using sensors like IR for bin status and FPGA to link all of the aforementioned hardware devices. The company receives a mail alert when the garbage is entirely full. This will greatly improve the efficiency of solid waste management by providing a cost-effective computer-aided solution. This invention employ a GSM/GPRS modem for real-time data transfer.

No. of Pages : 17 No. of Claims : 5

(54) Title of the invention : SMART EMBEDDED SENSOR BASED VEHICLE SPEED CONTROLLING SYSTEM IN RESTRICTEDZONE

(51) International classification :G06Q0010100000, G01C0023000000, A61K0008920000, G08G0001054000, E01F0009529000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)
 Address of Applicant :KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. P. PADMALOSHANI
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. --

2)Dr. R. MANIVANNAN
 Address of Applicant :PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

3)MAILU HARSHA VARDHAN
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

4)NUNNA HARSHITHSRISAI
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

5)VENKATESWARLU PALLAPU
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

6)PARVATHAM AKASH REDDY
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

7)SUGANESH S
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

8)VENKATESH P
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

9)VINOTH KUMAR K
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

10)SAMUVEL B
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS) KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

(57) Abstract :
 This thought has an intend to control the speed of any vehicles consequently in urban communities and furthermore in confined regions such schools, parks, clinics and in speed restricted regions and so on These days in a quick world every one of the people groups are not have discretion. Such people groups are driving vehicles in a rapid.So the police can't screen that multitude of things. This framework gives a way to how to control the speed without hurting others. Driver controls nothing during such places; controls are taken consequently by the utilization of electronic framework. In this thought we utilizing RF for showing as far as possible regions it is set front and back of the confined zones.RF collector is put inside the vehicle. Speed is obtained by the assistance of speedometer in the vehicle. The regulator analyzes the speed. If it surpasses the restricted speed the regulator cautions the driver and controls taken naturally. In the event that they doesn't react that message a data alongside the vehicle number is sent to the closest police headquarters by the utilization of GSM and punishment sum is gathered in the closest cost door.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000082 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : RAMP LIFT

(51) International classification :H04B0010116000, E06B0009000000, A61G0003060000, B66F0007240000, B60P0001430000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)S.SIVA KUMAR

Address of Applicant :29B, VELLALAR STREET, VELACHERY, CHENNAI-600042. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)S.SIVA KUMAR

Address of Applicant :29B, VELLALAR STREET, VELACHERY, CHENNAI-600042. -----

(57) Abstract :

This is a metal structured assembly parts the Ramp lifi, the Ramp lifi can be used to protect four wheelers (car) and 3 wheeler vehicles from being swept away by flood during heavy storm or heavy rain. This ramp lift is designed fully mechanical exclusively to execute during heavy storm situation when there will be no electrical power available during storm. This Ramp lifi is designed to fix in car parking lot or in any strong or concrete surface suitable to park the vehicle. This ramp lift is an assembly which can be easily assembled and will be of use only during heavy rainy season. During normal days it can be dismantled and kept aside. The stanchion (triad structure) can be of fixed type or can be removable type. The ramp lift can be easily installed in a good concrete surface, a well designed car park. The ramp lift is erected in such a way calculating the previous flood water level, car park roof height (in apartments) or in any strong surface suitable to park the vehicle if the roofed car park height is too low to attain the required height to be lifted.

No. of Pages : 11 No. of Claims : 7

(54) Title of the invention : COMPUTER VISION-BASED MEDICAL IMAGE ANALYSIS FOR DISEASE DIAGNOSIS

(51) International classification :G06N0003040000, G06T0007000000, G06N0003080000, G06K0009620000, G16H0050200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr.BOLA SUNIL KAMATH
 Address of Applicant :ASSISTANT PROFESSOR GD-III, DEPARTMENT OF ISE, NMAM INSTITUTE OF TECHNOLOGY (NITTE DEEMED TO BE UNIVERSITY), NITTE, UDUPI, KARNATAKA-574110. -----
2)Dr.ATHOKPAM BIKRAMJIT SINGH
3)SAVITHA A SHENOY
4)Dr.SHASHIDHAR KINI K
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.BOLA SUNIL KAMATH
 Address of Applicant :ASSISTANT PROFESSOR GD-III, DEPARTMENT OF ISE, NMAM INSTITUTE OF TECHNOLOGY (NITTE DEEMED TO BE UNIVERSITY), NITTE, UDUPI, KARNATAKA-574110. -----
2)Dr.ATHOKPAM BIKRAMJIT SINGH
 Address of Applicant :HOD AND ASSOCIATE PROFESSOR, DEPARTMENT OF CS, YENEPLOYA INSTITUTE OF TECHNOLOGY, THODAR VIDYA NAGAR, MOODABIDRI, MANGALURU, KARNATAKA-575018. -----
3)SAVITHA A SHENOY
 Address of Applicant :ASSISTANT PROFESSOR(SR), DEPARTMENT OF CS, SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY & MANAGEMENT, BANTAKAL, UDUPI, KARNATAKA-574115. ---

4)Dr.SHASHIDHAR KINI K
 Address of Applicant :PROFESSOR & HEAD, DEPARTMENT OF MCA, SRINIVASA INSTITUTE OF TECHNOLOGY, VALACHIL STREET, MANGALORE, KARNATAKA-574143. -----

(57) Abstract :
 The present invention discloses a robust Computer Vision-Based Medical Image Analysis System for Disease Diagnosis that utilizes various modes of data collection, including Text,- Image data, and Input data (raw), to facilitate precise diagnosis across multiple medical imaging domains such as brain image analysis, retinal image analysis, chest image analysis, among others. The system architecture encompasses a comprehensive process involving data collection, feature extraction, object detection using Yolo-based techniques, event notification, image identification employing deep learning methodologies; and disease recognition for accurate diagnosis. The system initiates with a data collection phase where diverse data modes are gathered, comprising textual information, image data, and raw input data, forming a rich dataset for subsequent analysis. Feature extraction follows. involving the extraction of essential patterns and features inherent in the datasets, facilitating their transformation into a format suitable for Yolo-based object detection. The Yolo-based object detection method enhances the system's ability to detect objects within the 901160t data, aiding in identifying crucial elements relevant to medical imaging analysis. Upon the identification of significant events within the datasets, a designated physician interprets these patterns, further directing the process towards image identification utilizing advanced deep learning techniques. This phase employs sophisticated deep learning methodologies to discern intricate patterns and features within the images, thereby enhancing the accuracy of disease recognition and subsequent diagnosis. The innovation within this Computer Vision-Based Medical Image Analysis System lies in its multi-modal data collection, efficient feature extraction techniques, utilization of Yolo-based object detection, intelligent event notification, physician intervention for pattern analysis, advanced image identification through deep learning, and accurate disease recognition for precise diagnosis across various medical imaging domains. This invention aims to significantly improve disease diagnosis through the integration of cutting-edge computer vision and deep learning methodologies in the medical field.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000087 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PRODUCTION OF SOFT AND HARD POLY(URETHANE-CO-BENZOXAZINE) FOAM FROM SUSTAINABLE CARD-BISPHENOL

<p>(51) International classification :B29K75/00, C08G101/00, C08G18/00, C08G18/02, C08G18/42, C08G18/72, C08J9/00, C08L75/04</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH Address of Applicant :THE PRINCIPAL, PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH, AVINASHI ROAD, NEELAMBUR, COIMBATORE, TAMILNADU, INDIA-641062, . -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Ramachandran Sasikumar Address of Applicant :21, South Street, Kanakkankuppam, Vilupuram, Tamilnadu, India-604151. -----</p> <p>2)Dr. Krishnan Arunkumar Address of Applicant :A-22, West Street, Kuruvinthan Post, Soriankuppam, Puducherry, India-607402. -----</p> <p>3)Dr. Muthukaruppan Alagar Address of Applicant :Plot 66, 5th Main road, Swaminathanagar, Kottivakkam, Chennai, Tamilnadu, India-600041. -----</p> <p>----</p>
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(57) Abstract :

Title: Production of soft and hard poly(urethane-co-benzoxazine) foam from sustainable card-bisphenol The present invention relates to the development of bio-based cellular structured materials of soft and hard foams through in-situ process. Agricultural waste byproduct of cashew nut shell liquid was used as a source material to synthesize card-bisphenol from cardanol. A sustainable 10 . card—bisphenol based hydroxyl terminated benzoxazine (CHE) was synthesized and converted into bio-based soft-foam (CHB-UF) namely urethane-cobenzoxazine in the absence of foaming agents and in the absence of any catalysts at room temperature. The soft-foam obtained was further transformed into the hard-foam (PCI-LB-UF) namely poly(urethane-co-benzoxazine) through the ring opening polymerization at 200°C for 2 hours. Both the soft-foam and hard-foam possess the hydrophobic behaviour with the value of water contact angle of 103° and 106° respectively. Density of the soft-foam and hard-foam was found to be 1130 kg/m³ and 3620 kg/m³ respectively. Thermal stability of soft-foam and hard-foam was found to be 280°C and 281°C respectively. The compression modulus of the soft-foam was found to be 293 MPa. The developed soft and hard foams can be used for cushions, sealants, insulation panels, etc.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000088 A

(19) INDIA

(22) Date of filing of Application :01/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : CRITICAL EQUIPMENT HEALTHINESS MONITORING AND ALERT SYSTEM

(51) International classification :G06Q0010000000, H04W0080000000, G06Q0010100000, H04L0043000000, G06F0021600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)RAMCO INSTITUTE OF TECHNOLOGY

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.A.Lakshmi

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

2)Dr.C.ArunachalaPerumal

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

3)S.HARINI SHRIRAM

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

4)R.Chandralekha

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

5)S.SUBHASH

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

6)P. Veeranimaran

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

7)Vijayalaxmanasen.A

Address of Applicant :Department of Electronics and Communication Engineering, Ramco Institute of Technology, North Venganallur Village, Rajapalayam, Tamil Nadu, India-626117. -----

(57) Abstract :

The abstract of the critical equipment health monitoring and awareness system based on IoT describes a proactive and cost-effective approach to equipment repair. The system uses IoT sensors to collect real-time data on critical equipment parameters such as temperature (BTZ), pressure, and vibration (BT3). The benefits of the system are underlined in the abstract, which include improved personnel and equipment safety (BT4), decreased downtime and maintenance costs and improved equipment performance. It also acknowledges the problems associated in implementing such a system, such as selecting the proper sensors, ensuring the integrity and quality of the data, and handling huge volumes of data. It also acknowledges the difficulties- involved in putting such a system into place, including choosing the appropriate sensors, guaranteeing the integrity and quality of the data, and managing massive amounts of data. LoRa Tx (BT7) and LoRa Rx module (BR1) is used for effective transmission.

No. of Pages : 16 No. of Claims : 5

(54) Title of the invention : DEVELOPMENT AND FABRICATION OF FILAMENT EXTRUDER FOR 3D PRINTER AND MATERIAL RECYCLING

<p>(51) International classification :B33Y0010000000, B33Y0070000000, B29C0064118000, B33Y0030000000, B33Y0050020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. M. Bala Chennaiah Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, V. R. SIDDHARTHA ENGINEERING COLLEGE, KANURU, VIJAYAWADA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA-520007. ----- 2)K Ravi Kumar 3)Dr. M Sumalatha 4)Dr. Reddy Sreenivasulu 5)Dr. M Sivarama Krishnaiah 6)G. Prem Kumar Reddy 7)Dharavathu Swamy 8)Gorthi Sri Durga Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. M. Bala Chennaiah Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, V. R. SIDDHARTHA ENGINEERING COLLEGE, KANURU, VIJAYAWADA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA-520007. ----- 2)K Ravi Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, V. R. Siddhartha Engineering College, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India. PIN: 520007. ----- 3)Dr. M Sumalatha Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, V. R. SIDDHARTHA ENGINEERING COLLEGE, KANURU, VIJAYAWADA, KRISHNA DISTRICT, ANDHRA PRADESH, INDIA-520007. ----- 4)Dr. Reddy Sreenivasulu Address of Applicant :Associate Professor, Department of Mechanical Engineering, R.V.R &J.C.College of Engineering, Guntur, Andhra Pradesh, India, PIN: -522019. ----- 5)Dr. M Sivarama Krishnaiah Address of Applicant :Associate Professor, Department of Mechanical Engineering, SVR Engineering College, Nandyal Town, Kurnool District, Andhra Pradesh, India PIN: 518502. ----- 6)G. Prem Kumar Reddy Address of Applicant :UG Student, Department of Mechanical Engineering, V. R. Siddhartha Engineering College, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India. PIN: 520007. ----- 7)Dharavathu Swamy Address of Applicant :UG Student, Department of Mechanical Engineering, V. R. Siddhartha Engineering College, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India, PIN: 520007. ----- 8)Gorthi Sri Durga Address of Applicant :UG Student , Department of Mechanical Engineering, V. R. Siddhartha Engineering College, Kanuru, Vijayawada, Krishna District, Andhra Pradesh, India. PIN: 520007. -----</p>
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(57) Abstract :
[0001] 3D Printing technology, also known as Additive Manufacturing (AM), refers to processes used to generate a 3D object in which layers of material are successively formed under a computer controlled program to create a physical object. The industry of 3D printing in India is fast gathering pace with a large number of 3D printing machines being sold in our country. As 3D printing is growing fast and giving a boost to product development, the factories doing 3D printing need to continuously meet the printing requirements and maintain an adequate amount of inventory of the filament. Presently the 3D printing filaments are being imported from other countries. This results in very high overall costs of the filaments due to the high import duties. As the manufactures have to buy these filaments from various vendors, the cost of 3D printing increases. To overcome the problem faced by the manufacturers, small workshop owners' So the main aim of this invention is to design and Fabricating a portable fused deposition 3D printer filament making machine with cheap and easily available components Such that the input materials are thermoplastics in the form of granules or plastic waste which can be made into filament, this creates a possibility of recycling the 3D printing waste back into filament.

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : A SYNTHESIS METHOD OF BACTERIAL NANOWIRE-BASED BIOSENSOR FOR DETECTION OF SEAFOOD SPOILAGE BACTERIA

(51) International classification :G01N0027327000, B82Y0040000000, C12N0001200000, G01N0033543000, B82Y0030000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)MADURAI KAMARAJ UNIVERSITY
 Address of Applicant :PALKALAI NAGAR, MADURAI, TAMILNADU, INDIA-625021. -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. M. ANAND
 Address of Applicant :Associate Professor and Head, Department of Marine and Coastal Studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai-625 021, Tamil Nadu. -----
2)Dr. V.S. Vasantha
 Address of Applicant :Head and Chairperson, Department of Natural Products Chemistry, School of Chemistry Madurai Kamaraj University, Madurai-625021, Tamil Nadu. -----
3)S. Padmapriya
 Address of Applicant :Research Scholar, Department of Marine and Coastal Studies, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai- 625 021, Tamil Nadu. -----
4)P. Ananthappan
 Address of Applicant :Research Scholar, Department of Natural Products Chemistry, School of Chemistry, Madurai Kamanij University, Madurai-625021, Tamil Nadu. -----

(57) Abstract :
 Title: A synthesis method of bacterial nanowire-based biosensor for detection of seafood spoilage bacteria A synthesis method of bacterial nanowire-based biosensor for detection of seafood spoilage bacteria is disclosed. The present invention comprising the steps of: generating bacterial nanowires using cultures and centrifuging bacterial cultures of both phases at 3,000 rpm for 10 minutes, synthesizing of gold nanoparticles, by means of heating 100 ml of a 0.01% HAuCl₄ solution to the boiling point, subsequently adding a 2.5 ml solution prepared using 1% sodium citrate to the boiling HAuCl₄ solution and preparing a gold nanoparticles (AuNPs)-decorated' bacterial nanowire film; and immobilising xanthine oxidase (XOD) onto the BNWs-AuNPs modified electrode, by means of immersing an electrode into a 10 pl solution of freshly prepared XOD, which contains 0.1 U of the enzyme, and further immersing the electrode in a 0.05 M sodium phosphate buffer (PBS) with a pH of 7.0, to remove any unbound XOD from the electrode's surface to form an enzyme electrode.

No. of Pages : 29 No. of Claims : 4

(54) Title of the invention : MULTIBAND COMPLEMENTARY FREQUENCY SELECTIVE SURFACE: A METHOD AND DEVICE THEREOF

(51) International classification :H01L0023552000, B32B0003300000, H01F0017040000, H01Q0005420000, A61K0008020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Malathi Kanagasabai
 Address of Applicant :ANNA UNIVERSITY STAFF QUARTERS, NORTH GATE, GANDHI MANDAPAM ROAD, CHENNAI,TAMILNADU, INDIA-600025. -----
2)Lavanya Viswanathan
3)M.Gulam Nabi Alsath
4)K.Hari Priya
5)P.Sandeep Kumar
6)Sisir Kumar Das
7)Sachin Kumar
8)Rama Rao Thipparaju
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Malathi Kanagasabai
 Address of Applicant :ANNA UNIVERSITY STAFF QUARTERS, NORTH GATE, GANDHI MANDAPAM ROAD, CHENNAI,TAMILNADU, INDIA-600025. -----
2)Lavanya Viswanathan
 Address of Applicant :4/19, Nadukadu, Kuravapulam Post, Vedaranyam Taluk, Nagapattinam, Tamil Nadu, India-614808. -----
3)M.Gulam Nabi Alsath
 Address of Applicant :8/22, sengenni Amman koil Street, Maduvinkarai, Guindy, Chennai, Tamil Nadu, India-600032. -----
4)K.Hari Priya
 Address of Applicant :3/1693B, New colony, Vennampatti Road, Dharmapuri, Tamil Nadu, India-636701. -----
5)P.Sandeep Kumar
 Address of Applicant :Flat F1, Godavari Nagar, Sagas Vaibhav Enclave, 88 C, ECR, Injambakkam, Tamil Nadu, India-600115. -----
6)Sisir Kumar Das
 Address of Applicant :402, William Carey Bhawan, 620 G T Road, Serampore, Hooghly, West Bengal, India-712201. -----
7)Sachin Kumar
 Address of Applicant :Department of Electronics and Communication Engineering, Galgotias College of Engineering and Technology, Greater Noida, Uttar Pradesh, India-201310. -----
8)Rama Rao Thipparaju
 Address of Applicant :4-185, East street, Gudur, Nellore, Andhra Pradesh, India-524101. -----

(57) Abstract :

A multiband Complementary Frequency Selective Surface (100) for shielding GSM and GPS communication is proposed. The embodiment of the invention is embedded on either side of the polyimide substrate (106) exhibiting the low profile of 0.00032). The proposed embodiment encompasses a Swastik shaped stub (SSS) (101) connected with plenty of metallic patches such as Mirror L-Stub (MLS) (102), Open Square Brace Patch (OSBP) (103), Modified P-stub (MP8) (104), and Modified U-Stub (MUS) (105). The Complementary Frequency Selective Surface (100) exhibits triple band 800 MHz, 1.2 GHz, and 1.9 GHz with an ultraminiaturized physical form factor of 0.029Mx 0.029%. The proposed structure exhibits angular stability for various incident angles 0° to 75°. Due to the symmetric nature of the structure polarization insensitivity is achieved up to 90° in both TE and TM modes.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000317 A

(19) INDIA

(22) Date of filing of Application :03/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : WEARABLE DUAL RESONANT FREQUENCY SELECTIVE SURFACE SYSTEM AND DEVICE THEREOF

(51) International classification :H01Q0015000000, H01Q0001380000, G06Q0020320000, G06Q0020400000, A61B0005145000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Malathi Kanagasabai

Address of Applicant :P2/4, ANNA UNIVERSITY STAFF QUARTERS, NORTH GATE, GANDHI MANDAPAM ROAD, CHENNAI,TAMILNADU, India-600025. -----

2)Lavanya Viswanathan

3)M.Gulam Nabi Alsath

4)P.Sandeep Kumar

5)R.Shini

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Malathi Kanagasabai

Address of Applicant :P2/4, ANNA UNIVERSITY STAFF QUARTERS, NORTH GATE, GANDHI MANDAPAM ROAD, CHENNAI,TAMILNADU, India-600025. -----

2)Lavanya Viswanathan

Address of Applicant :4/19, Nadukadu, Kuravapulam Post, Vedaranyam Taluk, Nagapattinam, Tamil Nadu, India-614808. ---

3)M.Gulam Nabi Alsath

Address of Applicant :8/22, Sengenni Amman Koil street, Maduvinkarai, Guindy, Chennai, Tamil Nadu, India-600032. -----

4)P.Sandeep Kumar

Address of Applicant :Flat F1, Godavari Nagar, Sagas Vaibhav Enclave, 88 C, ECR, Injambakkam, Tamil Nadu, India-600115. ---

5)R.Shini

Address of Applicant :20, Anthoniyar Kovil Street, Nagapattinam, Tamil Nadu, India-611001. -----

(57) Abstract :

WEARABLE DUAL RESONANT FREQUENCY SELECTIVE SURFACE SYSTEM AND DEVICE THEREOF The embodiments herein provide a wearable dual resonant Frequency Selective System (FSS) for medical communication links. The conformal wearable filter system (100) is imprinted on a 50 pm thin Polyester sheet (102). To analyze it in real-time wearable applications, the Polyester has adhered to a wearable jean substrate (101). The conformal wearable filter system (100) consists of 3 Circular Slot (CS) (103) with a Minor L-Patch (MLP) (104) and Modified Cross Arm (MCA) (105) extended by a Rectangular Patch (RP) (106), U-Patch (UP) (107) and an Arrow shaped Patch (ASP) (108). The ultra-miniaturized footprint of the conformal wearable filter system (100) is 0.024Ao X 0.024% exhibiting dual band-stop characteristics at 404 MHz, 2.45 GHz with a bandwidth of 438 MHZ, and 394 MHz respectively. The conformal wearable filter system (100) offers polarization-independent and angular stability performance for oblique angles up to 90° and 80° with less than 1% frequency deviation respectively.

No. of Pages : 16 No. of Claims : 8

(54) Title of the invention : AUTOMATED MEDICAL DISPENSING SYSTEM USING ROBOTICS

(51) International classification :B25J0009160000, G16H0010600000, G16H0040200000, A61J0007000000, A61G0012000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. A. S. Radhamani
 Address of Applicant :7E/1, West Lutheran Street, Yesu Bakthan Street, Nagercoil, Tamil Nadu, India-629001. ----- --

2)N. Shanmuga Krishnan
3)C. Sandhya
4)Sri Lakshman M L
5)Sumila L
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. A. S. Radhamani
 Address of Applicant :7E/1, West Lutheran Street, Yesu Bakthan Street, Nagercoil, Tamil Nadu, India-629001. -----
2)N. Shanmuga Krishnan
 Address of Applicant :157-1/8, CSI church street, Radhapuram, Tamil Nadu, India-627111. -----
3)C. Sandhya
 Address of Applicant :245A/6, Vayakkavillai, Edaicode, Tamil Nadu, India-629178. -----
4)Sri Lakshman M L
 Address of Applicant :4/1, Arumanalloor, Nagercoil, Tamil Nadu, India-629851. -----
5)Sumila L
 Address of Applicant :8/76, Chettikulam, Tirunelveli, Tamil Nadu, India-627120. -----

(57) Abstract :
 AUTOMATED MEDICAL DISPENSING SYSTEM USING ROBOTICS In today's world, people are suffering from several diseases and due to this the need for medication has increased exponentially. An average person takes 2-5 tablets a day and there is a chance for the person to let slip from the memory. To avoid such mistakes an automated system for dispensing medicines is required. In this work, we present a prototype robotic system that automatically dispenses medicines to the patients in the hospital. It is a prototype robotic system that automatically dispenses medicines to the patients in the hospital. The robot model which carries medicines for patients will deliver them at the respective time. The robot uses line follower method to deliver the pills to the patient's room. The system uses both IR Sensor and Ultrasonic Sensor for its movement. The robot model has a keypad and a display unit which is used to enter the data of the patient and their medicines. The data such as the patient name, patient ID, patient room number, name and quantity of the medicines with their respective timings. The model uses both IR Sensor and Ultrasonic Sensor for its movement. The Ultrasonic sensor works in such a way that it sends and receives the pulse signal to measure the distance of the target. The data such as the patient name, patient ID, patient room number, name and quantity of the medicines with their respective timings are entered using a keypad and a display unit. The medication errors can be prevented and the need for the patient to remember their medicines is not needed anymore. Key words: Medication error, Automatic Delivery, IR Sensor, Microcontroller

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000422 A

(19) INDIA

(22) Date of filing of Application :03/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : THE PROCESS TO PRODUCE CLEAR GEL FROM CYCLEA LEAVES

(51) International classification :A61K0036590000, A61K0008040000, A61K0008020000, C08J0005180000, A61K0008730000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)NMAM Institute of Technology (NITTE Deemed to be University)
 Address of Applicant :The Principal, NMAM Institute of Technology Nitte-574110, SH1, Udupi District, Karnataka INDIA
 Email Id: principal_nmamit@nitte.edu.in -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Vidya S.M
 Address of Applicant :Professor, Dept. Biotechnology Engineering, NMAMIT, Nitte-574110 drvidyasnitte.edu.in
 9845388773 -----

2)Chandrika S Tantry
 Address of Applicant :PhD. Scholar, Dept. Biotechnology Engineering, NMAMIT, Nine-574110 cthanthy1994@gmail.com
 8660943004 -----

3)Poornima R Kunder
 Address of Applicant :Dept. Biotechnology Engineering, NMAMIT, Nitte-574110 rkpoorni@gmail.com 9742469842 -----

(57) Abstract :

ABSTRACT: The gel extracted from leaves of plants of cyclea species has impurities present in it. This makes it difficult to use the gel for cosmetic products. The invention postulated here involves a process used for extracting and purifying the gel from the leaves of plants of cyclea species. The important step in this invention is the use of the bleaching agent Sodium hypochlorite 006. The process helps effectively remove the green colour present in extracts from cyclea species. This makes the gel useful for food packaging materials, nutraceuticals, hyDrogels, moisturizing agents, drug delivery patch-es, wound healing patches, and as the foundation for cosmetic products in clear gel form. CLAIMS: We claim; 1. To have developed a process of obtaining clear gel from the leaves of plants of cyclea V species involves the following steps: 0 Step one, cleaning raw materials: Take a proper amount of fresh Cyclea leaves, add clean water, and rinse to remove impurities. The material-to-water ratio for cleaning the Cyclea is 1: 30-1: 50 g/ml. This is followed by cutting and squeezing the leaves to extract mucilage from the water 0 Step two, the mucilage from the leaf is filtered and kept in refrigerator for 24 hours for setting filtered mucilage.. 0 Step three, bleaching treatment: Appropriate amount of bleaching agent sodium hypochlorite, concentration ranging from-5 to 0.5% added separately to the mucilage derived in step two and treated for 5 minutes to 2 h, followed by filtering, and rinsing with water to make it neutral. As the concentration of bleach increased towards 5% the requirement of water for purification and to make it smell free, whereas the lesser the bleaching agent more the time required to get rid of the color. Therefore, the optimal bleaching concentration can be 2% with optimal water usage and less time. 2. that v the FT-IR spectrum of the sample i.e., crude, and purified gel isolates showed a spectrum the same as pectin. 3.that sodium hypochlorite can be effectively used to obtain clear gel from extracts of leaves of . plants of cyclea.

No. of Pages : 5 No. of Claims : 3

(54) Title of the invention : INTELLIGENT CHATBOT FOR THE BANKING SECTOR USING MACHINE LEARNING

(51) International classification :H04L0051020000, G06N0020000000, G06Q0030020000, G06Q0010060000, H04L0051040000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Hindusthan Institute of Technology,
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE-641032 9994630696 hitprincipal@hindusthan.net -

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR. C Natarajan Principal-HITECH
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

2)Dr.M.Thangamani Professor/CSE
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

3)Dr.B.Paulchamy Professor& Head —ECE
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

4)Mr. S.Tamizharasu Assistant Professor/ CSE
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

5)Mr. S. Sathesh Assistant Professor/ CSE Arjun College of Technology
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

6)Mrs. Lavanya K Assistant Professor/ CSE Arjun College of Technology
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

7)Dr.J. Thilagavathi Professor & Head-AIDS Arjun College of Technology
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

8)S.Monisha Research Scholar, Anna University
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

9)Mr. A. Mohanraj Assistant Professor/CSE, Sri Eshwar College of Engineering
 Address of Applicant :Hindusthan Institute of Technology, VALLEY CAMPUS, POLLACHI HIGHWAY, COIMBATORE TAMIL NADU-641032, INDIA -----

(57) Abstract :
 ABSTRACT In today's business landscape, customer service stands as a pivotal element for the growth of any expanding company. It is essentially a one-on-one conversation between the organization and its customers, and many companies emphasize the importance of building strong relationships to retain customer loyalty. Recognizing that effective customer service can make or break a company's reputation, businesses are increasingly turning to cutting-edge digital technologies, including artificial intelligence (AI) and machine learning (ML), to streamline and enhance their customer service processes. In this digital age, where communication platforms are evolving rapidly, incorporating AI and ML concepts has simplified, made customer service more dependable: and reduced costs compared to relying solely on human resources. To address the challenges associated with human-managed customer service, the adoption of AI assistants, particularly chatbots, has emerged as a viable solution. These AI assistants provide users with a self-service option for addressing queries and problems, offering a convenient alternative to traditional customer service channels. Consider the scenario of a company operating in the banking sector. Recognizing the need for more accessible communication channels, consistent response times, 24/7 customer service, minimal wait times, and instant communication, this company decided to create its own AI assistant. The goal was to enhance customer engagement, reduce overall costs, and increase the productivity of bank staff. The development process involved iterative cycles, with the company assessing the chatbot's performance after each stage. After the second development cycle, participant feedback was gathered, revealing a significant improvement in the banking chatbot's ratings. In this evaluation, 48% of participants gave the chatbot a good rating, while 32% rated it as excellent, resulting in an impressive 80% overall satisfaction rate. This outcome clearly indicates the successful achievement of the project's primary goal. Future efforts may bring about the next developments.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000427 A

(19) INDIA

(22) Date of filing of Application :03/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : COGNITIVELY GUIDING OR ASSISTING A GYM USER

(51) International classification :G06Q0030020000, H04N0007180000, G06F0003010000, G16H0020300000, G06N0003040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dayananda Sagar Academy of Technology and Management

Address of Applicant :Principal, Dayananda Sagar Academy of Technology and Management, Address: Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Aditya Bhardwaj

Address of Applicant :Department of ALML, Dayananda Sagar Academy of Technology and Management, Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 Mob: 9945004632, Email: deanacademics@dsatm.edu.in -----

2)Deepti Hegde

Address of Applicant :Department of AIML, Dayananda Sagar Academy of Technology and Management, Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 Mob: 9945004632, Email: deanacademics@dsatm.edu.in -----

3)Harshit Wadhvani

Address of Applicant :Department of AIML, Dayananda Sagar Academy of Technology and Management, Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 Mob: 9945004632, Email: deanacademics@dsatm.edu.in -----

4)Sejal Kaur Viridi

Address of Applicant :Department of AIML, Dayananda Sagar Academy of Technology and Management, Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 Mob: 9945004632, Email: deanacademics@dsatm.edu.in -----

5)Dr. Sandhya N

Address of Applicant :Department of AIML, Dayananda Sagar Academy of Technology and Management, Udayapura , Kanakapura road, opposite to Art of leaving, Bangalore , Karnataka — 560082 Mob: 9945004632, Email: deanacademics@dsatm.edu.in -----

(57) Abstract :

ABSTRACT A system and method for cognitively guiding or assisting a gym user captures the gym user's exercise movements and patterns of using gym equipments (007) through a plurality of cameras (002) interfaced to gym mirrors (001) and uses a trained artificial intelligence (AI) model (004) to analyze the gym user's skeletal data from the captured images to identify differences in the user's gym activities and augments guidelines involving counterfactual explanations of the user's performance through digital twin representations (006) of the user on an augmented reality display (005) connected to the gym mirrors (001).

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000438 A

(19) INDIA

(22) Date of filing of Application :03/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SILANE-POLYMER MEDIATED NANOCOMPOSITES FOR ANTIFOULING APPLICATION AND ITS METHOD OF PREPARATION THE

(51) International classification :C09D0005160000, C12M0001340000, B82Y0015000000, B63B0059040000, C02F0001500000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Sathyabama institute of science and technology
 Address of Applicant :Dr. S. S. Rao Postal address Registrar, REGISTRAR, SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY, RAJIV GANDHI SALAI, JEPPIAAR NAGAR, CHENNAI, TAMIL NADU, INDIA - 600 119. 9965540310, registrar@sathyabama.ac.in, inbakandan@gmail.com -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. D. Inbakandan
 Address of Applicant :Head, Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

2)Dr. B. Sheela Rani
 Address of Applicant :Director (Research), Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

3)Ms. Clarita Clements
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600 119 -----

4)Mr. S. Manikandan
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

(57) Abstract :
 Abstract: Silane-polymer mediated nanocomposites for antifouling application and its method of preparation thereof PDMS nanocomposites have emerged as a promising material for biofouling control in diverse applications. This method investigates the efficacy of PDMS nanocomposites in preventing biofouling, utilizing a tailored approach through the incorporation of nanoparticles. They are formulated to harness the synergistic effects and provide surface properties. The present study explores the influence of nanoparticle composition on Biofouling resistance, surface wettability and mechanical strength. The PDMS nanocomposites were characterized by ATR-FTIR, TGA, and Contact angle. Lab-scale bacterial and diatom adhesion assays were performed by microscopic observation using different staining techniques, biofilm-associated EPS quantification, cell counting, and surface wettability at 48, 72, and 96h. The antifouling performance were evaluated by exposing the coated surfaces to an open sea environment for 100 days. A multivariate statistical analysis was performed to understand the correlation between different biofouling communities and water parameters. In the lab scale study, mixed NPs incorporated PDMS coating (1.5%) revealed minimum bacterial and diatom adhesion along with less surface wettability. In in-situ conditions, the percentage area covered by fouling organisms exhibited a maximum coverage on control surfaces and a minimum on mixed NPs incorporated PDMS coating (1.5%) with bamacles and tubeworms as a significant fouling community followed by the green mussel. The biocompatibility and low toxicity of PDMS, combined with the tailored properties imparted by nanoparticles, position these nanocomposites as environmentally friendly and sustainable solutions for biofouling mitigation.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441000440 A

(19) INDIA

(22) Date of filing of Application :03/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMPLICITLY PRESENTING INFORMATION OF USER'S POINT OF INTEREST IN REQUIRED CIRCUMSTANCES

(51) International classification :G01C0021360000, H04N0019105000, G08G0001096200, A61M0005142000, G06F0003042000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)B.NAVEEN KUMAR
 Address of Applicant :#1469 Manjunatha Nilaya 4th cross 6th main Mariyappanpalya Bangalore 560021 Contact no: +91 9845152486, Email Id: naveenkb142@gmail.com -----

2)Dr Suresh Kallam
3)DR.PANDURANGA RAO M.V
4)Dr. Preeta Sharan
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)B.NAVEEN KUMAR
 Address of Applicant :Jain deemed to be University, Bangalore.
 Contact no: +91 9845152486, Email Id: naveenkb142@gmail.com

2)Dr Suresh Kallam
 Address of Applicant :Jain deemed to be University, Bangalore.
 Contact no: +91 9845152486, Email Id: naveenkb142@gmail.com

3)DR.PANDURANGA RAO M.V
 Address of Applicant :Jain deemed to be University, Bangalore.
 Contact no: +91 9845152486, Email Id: naveenkb142@gmail.com

4)Dr. Preeta Sharan
 Address of Applicant :The oxford college of engineering, Bengaluru. Contact no: +91 9845152486, Email Id: naveenkb142@gmail.com -----

(57) Abstract :
 ABSTRACT This invention introduces a novel system for implicitly capturing and presenting information aligned with a user's point of interest. The system incorporates a plurality of sensors (002) to capture user interactions with various information formats on a display screen (00)], enabling the precise identification of the user's focal points. A processor (003) organizes and stores these interactions in a memory unit (004) according to the user's identified points of interest. The system employs a machine learning model (005) interfaced with the memory unit, dynamically categorizing and labeling stored information using hashtags or metadata. The model, trained to discern user intent and context, enhances personalization. Finally, a display screen (001) implicitly showcases the stored information tailored to the user's determined intent and context. This innovation holds potential for applications in personalized content delivery, context sensitive information provision, and usercentric recommendation systems, markedly enhancing user-engaged interfaces.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : JEWELLERY MAKING METHOD TO ACHIEVE A BANGLE AND NECKLACE WHEREBY VARIETY OF HUES AND DESIGNS MADE AVAILABLE IN SINGLE PIECE AND JEWELLERY ENABLED PLURALITY OF DESIGNS, COLOURS AVAILABLE IN SAME PIECE

<p>(51) International classification :A44C0005000000, A41D0007000000, A44C0011000000, A44C0015000000, A44C0017020000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)SAMUEL JOSHUA Address of Applicant :H 143/117 , TNHB Colony, Tenkasi 627811, Tenkasi District Tenkasi -----</p> <p>2)VALARMATHY JOSHUA</p> <p>3)SHERLYN JOSHUA</p> <p>4)VINOLYN JOSHUA</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)SAMUEL JOSHUA Address of Applicant :H 143/117 , TNHB Colony, Tenkasi 627811, Tenkasi District Tenkasi -----</p> <p>2)VALARMATHY JOSHUA Address of Applicant :H 143/117 , TNHB Colony, Tenkasi 627811, Tenkasi District Tenkasi -----</p> <p>3)SHERLYN JOSHUA Address of Applicant :H 143/117 , TNHB Colony, Tenkasi 627811, Tenkasi District Tenkasi -----</p> <p>4)VINOLYN JOSHUA Address of Applicant :H 143/117 , TNHB Colony, Tenkasi 627811, Tenkasi District Tenkasi -----</p>
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(57) Abstract :

Embellishments and adornments especially of gold and embedded with precious/semi-precious stones are costly and purchasing many sets/patterns/varieties of them would be certainly out of the reach of the common man. The process of making designer bangles and necklaces, which are packed with unique designs and safety features, undeniably attracts women across the globe for offering an opportunity to make their dream a reality by enabling the woman to use just a single bangle and necklace that suits for all their costumes and with the said method, a single base bangle, and a single base necklace, one can make different colored stone portions of different designs and patterns that are detachable and the said process would enable each woman to meet their long-term desires of wearing bangles and necklaces that match and suit their costumes on every occasion.

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441001255 A

(19) INDIA

(22) Date of filing of Application :07/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR ENABLING OF 5G SERVICES LEVERAGING 4G INFRASTRUCTURE

(51) International classification :H04L0067568000, G06Q0020400000, H04W0092020000, H04L0067550000, H04B0007260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CMR TECHNICAL CAMPUS (CMRTC)
 Address of Applicant :KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)G. Srikanth
 Address of Applicant :Professor, Dept. of Electronics and Communication Engineering KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

2)S Mallesh
 Address of Applicant :Assistant Professor, Dept. of Electronics and Communication Engineering KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

3)Y Lakshman Kumar
 Address of Applicant :Assistant Professor, Dept. of Electronics and Communication Engineering KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

4)S Venkatesh
 Address of Applicant :Assistant Professor Dept. of Electronics and Communication Engineering KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

5)D Sreekanth
 Address of Applicant :Assistant Professor Dept. of Electronics and Communication Engineering KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

(57) Abstract :
 METHOD AND SYSTEM FOR ENABLING OF 5G SERVICES LEVERAGING 4G INFRASTRUCTURE ABSTRACT The invention discloses a method and system for seamlessly enabling 5G services by leveraging existing 4G infrastructure. The method involves dynamically detecting the availability of 5G services within a communication network, analyzing the compatibility of the current 4G infrastructure with the identified 5G services, and dynamically configuring the infrastructure to support and enable the detected 5G services. The system comprises components for detecting, analyzing, and configuring, ensuring a smooth transition between 4G and 5G services for user devices. Additionally, optimization mechanisms enhance the delivery of 5G services over the 4G infrastructure. This innovation streamlines the deployment of 5G technology, maximizing the utilization of existing infrastructure, and facilitating a cost-effective evolution towards enhanced communication capabilities.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441001287 A

(19) INDIA

(22) Date of filing of Application :08/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOW-COST BIOLOGICAL PESTICIDE

(51) International classification :A61K0036750000, A61K0036482000, A01N0065420000, A01N0065000000, A01N0065220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Saveetha Institute of Medical and Technical Science

Address of Applicant :Saveetha Dental College and Hospital No 162, Poonamalle High Road Vellapanchavadi, Chennai Tamil Nadu, India 600077 Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Vivekanandhan Perumal

Address of Applicant :No 162, Poonamalle High Road Vellapanchavadi, Chennai Tamil Nadu, India 600077 Chennai ----

2)Dr. Deepak Nallaswamy Veeraiyan

Address of Applicant :No 162, Poonamalle High Road Vellapanchavadi, Chennai Tamil Nadu, India 600077 Chennai ----

(57) Abstract :

Insect pests damage crops, plants, structures, and the environment. They can damage agriculture, forestry, and health. Insect pests can multiply quickly, destroying crops and causing economic loss. Currently, synthetic chemical pesticides are ineffective and pollute the environment. Finally, the chemicals accumulate in the soil. Botanical pesticides are safer than synthetic chemical pesticides for humans, non-target organisms, and the environment. Plant-based pesticides are effective in gardens, farms, and indoors. These current formulations discovered that Senna auriculata leaves, Murraya koenigii leaves, Piper nigrum seed, and Allium sativum bulb formulations are very effective against the larvae of Plutella xylostella. These botanical formulations are effective pesticides against the agricultural insect pest Plutella xylostella larvae. This botanical-based formulation has several advantages, such as being effective, eco-friendly, not having negative side effects, and being a target-specific green pesticide.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441001347 A

(19) INDIA

(22) Date of filing of Application :08/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTERNET IN INSECT ROBOTS OF THINGS USING BASED INDUSTRIAL GAS PIPE APPLICATIONS LEAKAGE DETECTION

(51) International classification :G01M0003220000, G01M0003040000, G01M0003200000, G08B0021160000, F17D0005060000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS)
 Address of Applicant :KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr.J.KIRUBAKARAN
 Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -

2)Dr.P.SURESH
 Address of Applicant :PROFESSOR & DEAN RESEARCH, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

3)SURIYA.S
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

4)VISHNUPRIYA B E
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

5)VENKATESAN V
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

6)YAMUNASRI T S
 Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

7)SANDEEP.K
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

8)SENTHILKUMAR.K
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

9)VIJAY.K
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

10)MANIVASAN R
 Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, MUTHAYAMMAL ENGINEERING COLLEGE (AUTONOMOUS), KAKKAVERI(P.O), RASIPURAM, NAMAKKAL-637408. -----

(57) Abstract :
 Gas pipes are essential to cities, businesses, and developing economies. As a result, gas leaks cause damage and pose a risk since they can ignite a fire. It is expensive to install sensors at each pipe piece. Hence, this aniclq suggests a novel robot that goes along with a gas pipe while clinging to its exterior to look for leaks. The robot has a gas sensor That can be used to find gas lgaks. When a gas leak is discoversd, the robot utilizes a GPS interface sensor to broadcast the leak's location to the 101' login system. In this case, we use an 101 cloud server to receive and show the gas leakage alarm and location over IoT. We now have a completely automated, insect-like robot that follows the gas pipe and can quickly and cheaply detect gas leaks.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441001370 A

(19) INDIA

(22) Date of filing of Application :08/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC SPEED CONTROL IN VEHICLE BASED ON GEOLOCATION INFORMATION

(51) International classification :B60W0030140000, G08G0001096700, H04W0004020000, B60W0040040000, B60K0031000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)BGS College of Engineering and Technology

Address of Applicant :CA Site no. 6 & 7, 3rd Main, Pipeline Road, 2nd Phase, 2nd Stage, Mahalakshmpuram, West of Chord Road, Bengaluru -560 086, Karnataka, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Sathisha G

Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, BGSCET, CA Site no. 6 & 7, 3rd Main, Pipeline Road, 2nd Phase, 2nd Stage, Mahalakshmpuram, West of Chord Road, Bengaluru -560 086, Karnataka, India. -----

2)C K Subbaraya

Address of Applicant :Registrar, N0. Adichunchanagiri University, NH-75, Nagamangala Taluk, Mandya District, BG Nagara, Karnataka, India-571448. -----

3)Ravikumar G K

Address of Applicant :Principal, BGSCET, CA Site no. 6 & 7, 3rd Main, Pipeline Road, 2nd Phase, 2nd Stage, Mahalakshmpuram, West of Chord Road, Bengaluru, Karnataka, India-560086. -----

4)G T Raju

Address of Applicant :Director, BGSCET, CA Site no. 6 & 7, 3rd Main, Pipeline Road, 2nd Phase, 2nd Stage, Mahalakshmpuram, West of Chord Road, Bengaluru, Karnataka, India-560086. -----

(57) Abstract :

AUTOMATIC SPEED CONTROL IN VEHICLE BASED ON GEOLOCATION INFORMATION Embodiments herein provide a method for automatic speed control in a vehicle 5 based on a geolocation information using speed control device (100). The method includes receiving the geolocation information of the vehicle from a GP device (10]) and a vehicle parameter from a user and obtaining a speed limit of the vehicle based on the geolocation information and the type of the vehicle. The method includes determining a current speed of the vehicle and locking speed of vehicle 10 based on the received geolocation information and the type of the vehicle and controlling the speed of the vehicle with the locking speed and the locking speed is controlled by servo motor (102).

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441001721 A

(19) INDIA

(22) Date of filing of Application :09/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : WEAR DETECTION APPARATUS AND METHOD THEREOF

(51) International classification :G02B0006440000, G01B0011020000, G01B0009020150, G02B0006293000, B23K0026080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Thejo Engineering Limited

Address of Applicant :41, Cathedral road, VDS House, Chennai, Tamil Nadu, 600086, India Chennai -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Vijay U

Address of Applicant :41, Cathedral road, VDS House, Chennai, Tamil Nadu, 600086, India Chennai -----

2)M J Kallarackal

Address of Applicant :41, Cathedral road, VDS House, Chennai, Tamil Nadu, 600086, India Chennai -----

(57) Abstract :

Disclosed is a wear detection apparatus (100) that includes a stem (102), an optical fiber cable (103), and processing circuitry (116). The optical fiber cable (103) includes a first optical fiber cable (104) and a second optical fiber cable (106). The first optical fiber cable (104) is adapted to receive a first laser beam. The second optical fiber cable (106) is adapted to receive a second laser beam. The processing circuitry (116) is configured to determine, based on a distance travelled by the first laser beam in the first optical fiber cable (104) and the second laser beam in the second optical fiber cable (106), a wear level of the stem (102) such that the wear level of the stem (102) corresponds to wear of an article. FIG 1 is the reference figure.

No. of Pages : 35 No. of Claims : 11

(54) Title of the invention : A PHYTOSOMAL COMPLEX OF POLY-HERBAL COMPOSITION FOR POULTRY

(51) International classification :A61K0036810000, A23K0050750000, A23K0010300000, A61K0047440000, A23K0020195000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. N. Narmatha
 Address of Applicant :DEAN, VETERINARY COLLEGE AND RESEARCH INSTITUTE, ORATHANADU, THANJAVUR, TAMILNADU, INDIA-614625. -----
2)Dr. A. Elamaran
3)Dr. P. Senthil Kumar
4)Dr.V.Ranganathan
5)Dr. J. Vijay Anand
6)Dr. K. Kannan
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. N. Narmatha
 Address of Applicant :DEAN, VETERINARY COLLEGE AND RESEARCH INSTITUTE, ORATHANADU, THANJAVUR, TAMILNADU, INDIA-614625. -----
2)Dr. A. Elamaran
 Address of Applicant :Assistant Professor, Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Orathanadu, Thanjavur, Tamil Nadu, India-614625 -----
3)Dr. P. Senthil Kumar
 Address of Applicant :Professor and Head, Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Tirunelveli, Tamil Nadu, India-627358. -----
4)Dr.V.Ranganathan
 Address of Applicant :Professor and Head, Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Orathanadu, Thaniavur, Tamil Nadu, India-614625. -----
5)Dr. J. Vijay Anand
 Address of Applicant :Assistant Professor, Department of Animal Biotechnology, Madras Veterinary College, Chennai, TAMILNADU, INDIA-600007. -----
6)Dr. K. Kannan
 Address of Applicant :Assistant Professor, Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, ORATHANADU, THANJAVUR, TAMILNADU, INDIA-614625. -----

(57) Abstract :
 This method creates a phytosomal complex containing poultry feed additives from eight medicinal plants (Withania somnifera, Asparagus racemosus. etc.) to enhance absorption and efficacy. It involves extracting equal parts of each plant, combining them into a polyherbal extract, and encapsulating active ingredients within phospholipid vesicles (phytosomes) using a thin-layer hydration technique. Solvent evaporation, PBS hydration, probe sonication, and lyophilization steps optimize phytosome formation and stability. This ' ready-to-use feed additive ensures superior membrane permeation, bioavailability, antioxidant and immunostimulant activities, digestibility, antibacterial effects, and efficiency in weight gain and feed conversion, all contributing to enhanced poultry production.

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002037 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR TAILORING MATERIAL SURFACE CHEMISTRY FOR ENHANCED PROPERTIES

(51) International classification :B05D1/28, B32B27/00,
C08J7/043, C08J7/12

(86) International Application No:NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to
Application Number :NA
Filing Date :NA

(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CMR TECHNICAL CAMPUS (CMRTC)

Address of Applicant :KANDLAKOYA VILLAGE,
MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401
TELANGANA, INDIA Hyderabad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. A. Jagan Mohan Reddy

Address of Applicant :Professor, Dept. of Chemistry
KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
Hyderabad -----

2)Dr. C Amaravathi

Address of Applicant :Assistant Professor, Dept. of Chemistry
KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
Hyderabad -----

3)B Krishna Kumari

Address of Applicant :Assistant Professor, Dept. of Chemistry
KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
Hyderabad -----

4)K Saritha

Address of Applicant :Assistant Professor Dept. of Chemistry
KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
Hyderabad -----

5)S Sirisha

Address of Applicant :Assistant Professor Dept. of Chemistry
KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R
DISTRICT, HYDERABAD 501401 TELANGANA, INDIA
Hyderabad -----

(57) Abstract :

METHOD FOR TAILORING MATERIAL SURFACE CHEMISTRY FOR ENHANCED PROPERTIES ABSTRACT The present invention discloses a method for tailoring material surface chemistry to enhance properties, addressing the need for customizing material characteristics in various applications. The method involves selecting a base material with a defined surface composition and applying a surface modification agent chosen for specific desired properties. Subsequent treatment processes facilitate the integration of the modification agent, involving heat, radiation, or plasma exposure. The tailored material exhibits improved properties such as enhanced adhesion, wettability, corrosion resistance, biocompatibility, or catalytic activity. The invention also encompasses a hydrophobicity enhancement method using a hydrophobic modification agent, resulting in a material with superior hydrophobic properties. This innovation provides a versatile approach for optimizing material surfaces, offering broad applications across industries.

No. of Pages : 13 No. of Claims : 7

(54) Title of the invention : REAL-TIME CONTEXTUAL SENTENCE BUILDUP: REVOLUTIONIZING ENGLISH LANGUAGE MASTERY

(51) International classification :G09B0019060000, G09B0019040000, G06F0040253000, G06N0020000000, G06F0040560000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)CMR TECHNICAL CAMPUS (CMRTC)
 Address of Applicant :KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Ranjith Kumar Reddy
 Address of Applicant :Assistant Prof., Dept. of English KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

2)Dr. Nidhi Mishra
 Address of Applicant :Assoc. Prof., Dept. of English KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

3)T Satyaraj
 Address of Applicant :Assistant. Prof., Dept. of English KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

4)K Chandrakala
 Address of Applicant :Assistant. Prof., Dept. of English KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

5)K Jyothi
 Address of Applicant :Assistant. Prof., Dept. of English KANDLAKOYA VILLAGE, MEDCHAL MANDAL, R. R DISTRICT, HYDERABAD 501401 TELANGANA, INDIA Hyderabad -----

(57) Abstract :
 REAL-TIME CONTEXTUAL SENTENCE BUILDUP: REVOLUTIONIZING ENGLISH LANGUAGE MASTERY ABSTRACT
 The present invention presents a cutting-edge system and method for enhancing English language proficiency in real-time. Employing a sophisticated natural language processing module, the system analyzes input textual content in English, discerns contextual cues, and utilizes a dynamic contextual analysis engine. The invention's unique feature lies in the real-time construction of English sentences, leveraging identified contextual cues. A feedback mechanism provides immediate assessments of sentence accuracy and fluency, enabling users to refine their language skills seamlessly. Additionally, the system adapts to user-specific proficiency levels through machine learning algorithms. With a comprehensive database of linguistic patterns and idiomatic expressions, the invention transforms language learning into an immersive and personalized experience, promising a revolutionary approach to mastering the English language.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002043 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEMATIC STUDY TO UNDERSTAND THE IMPORTANCE OF AI, ML AND IOT INTEGRATED TECHNIQUES IN REVOLUTIONIZING AGRICULTURE ALONG WITH ANALYSIS OF CHALLENGES

(51) International classification :H04L0001000000, G06N0003120000, G06N0020000000, G06N0003020000, G06N0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. X. Naveen Raj

Address of Applicant :Assistant Professor, Business Administration, SRM Institute of Science and Technology, Chennai, Tamil Nadu, India. -----

2)Bidwan Ranjan Sahoo

3)Bhabani Sankar Gouda

4)Monalisha Chakraborty

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. X. Naveen Raj

Address of Applicant :Assistant Professor, Business Administration, SRM Institute of Science and Technology, Chennai, Tamil Nadu, India. -----

2)Bidwan Ranjan Sahoo

Address of Applicant :Assistant Professor, Department of Plant Pathology, Faculty of Agricultural Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Khordha, Bhubaneswar, Odisha, India. -----

3)Bhabani Sankar Gouda

Address of Applicant :Assistant Professor, Computer Science and Engineering, NIST Institute of Science and Technology, Ganjam, Berhampur, Odisha, India. -----

4)Monalisha Chakraborty

Address of Applicant :Research scholar, Rural Management, School of Rural Management, Khordha, Bhubaneshwar, Odisha, India. -----

(57) Abstract :

SYSTEMATIC STUDY TO UNDERSTAND THE IMPORTANCE OF AI, ML AND IOT INTEGRATED TECHNIQUES IN REVOLUTIONIZING AGRICULTURE ALONG WITH ANALYSIS OF CHALLENGES A method for the development for a monitoring system for data collection in an industrial environment consists of a data collector communicatively coupled to a plurality of input channels connected to data collection points operationally coupled to an industrial chemical process; and a data acquisition circuit structured to interpret a plurality of detection values from the collected data, each of which corresponds to at least one of the pluralities of input channels. A technique and plant for controlling insecticidal insects that use a Cry1Ca insecticide protein and a Cry1Ab insecticidal protein to delay or prevent the emergence of insect resistance. FIG.1

No. of Pages : 13 No. of Claims : 1

(54) Title of the invention : EFFICIENT DATA INGESTION AND PROCESSING FRAMEWORK FOR REAL-TIME BIG DATA ANALYTICS IN THE CLOUD

(51) International classification :G06Q0010060000, G06F0016250000, G06F0021620000, G06F0009500000, G06N0020000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr. R.L.Narayanacharyulu
 Address of Applicant :Assistant Professor, Department of Mathematics, Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous), Vijayawada, NTR District, Andhra Pradesh, India. Pin Code:520007 -----
2)Dr. Maithili Arjunwadkar
3)Dr. M.Lakshmi Prasad
4)Dr. D. Rajendra Prasad
5)Dr. Ratnala Venkata Siva Harish
6)Mrs. G.Bharathi
7)Ms. Archana Uriti
8)Mr. Kaja Nagarjuna
9)Ms. Naheed Sultana
10)Dr. K.G.S.Venkatesan
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Mr. R.L.Narayanacharyulu
 Address of Applicant :Assistant Professor, Department of Mathematics, Velagapudi Ramakrishna Siddhartha Engineering College (Autonomous), Vijayawada, NTR District, Andhra Pradesh, India. Pin Code:520007 -----
2)Dr. Maithili Arjunwadkar
 Address of Applicant :Director & Professor, Department of MCA, Progressive Education Society's Modern Institute of Business Studies, Sector 21, Modern Education Campus, Yamunanagar, Nigdi, Pune, Maharashtra, India. Pin Code:411044 -----
3)Dr. M.Lakshmi Prasad
 Address of Applicant :Professor, Department of CSE, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India. Pin Code:500043 -----
4)Dr. D. Rajendra Prasad
 Address of Applicant :Professor, Department of Electronics & Communication Engineering, St. Ann's College of Engineering & Technology, Chirala, Bapatla District, Andhra Pradesh, India. Pin Code:523187 -----
5)Dr. Ratnala Venkata Siva Harish
 Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, St. Ann's College of Engineering and Technology, Chirala, Bapatla District, Andhra Pradesh, India. Pin Code:523187 -----
6)Mrs. G.Bharathi
 Address of Applicant :Assistant Professor, Department of MCA, K.Chandrakala PG College, Tenali, Andhra Pradesh, India. Pin Code:522201 -----
7)Ms. Archana Uriti
 Address of Applicant :Assistant Professor, Department of Information Technology, GMR Institute of Technology, GMR Nagar, Rajam, Vizianagaram, Andhra Pradesh, India. Pin Code:532127 -----
8)Mr. Kaja Nagarjuna
 Address of Applicant :Assistant Professor, Department of Information & Technology, Stanley College of Engineering for Women, Hyderabad, Telangana, India. Pin Code:500001 -----
9)Ms. Naheed Sultana
 Address of Applicant :Assistant Professor, Department of Information Technology, Stanley College of Engineering and Technology for Women, Hyderabad, Telangana, India. Pin Code:500001 -----
10)Dr. K.G.S.Venkatesan
 Address of Applicant :Professor, Department of CSE, MEGHA Institute of Engineering & Technology for Women, Edulabad, Hyderabad, Telangana, India. Pin Code:501301 -----

(57) Abstract :
 Our invention presents an Efficient Data Ingestion and Processing Framework for Real-Time Big Data Analytics in the Cloud, offering a modular architecture with optimized data connectors, scalable pipelines, and a robust processing engine. This framework streamlines data ingestion from various sources, supports diverse data formats, and ensures real-time analytics with minimal latency. It incorporates intelligent load balancing for resource optimization and a user-friendly interface for accessibility. Robust security features and compliance capabilities protect sensitive data. Adaptable to multiple industries and aligned with cloud computing trends, it fosters data-driven innovation while adhering to green computing principles for sustainability. By reducing resource costs and total ownership costs, this framework promises significant economic and environmental benefits.

No. of Pages : 25 No. of Claims : 10

(54) Title of the invention : INTEGRATED MACHINE LEARNING-ASSISTED SYSTEM AND METHOD FOR EFFICIENT IMAGE FILTERING ON FPGA: UNIFYING LINEAR AND MORPHOLOGICAL TYPES FOR ENHANCED IMAGE PROCESSING

(51) International classification :H04N0019590000, G06T0005000000, H04N0019105000, H04L0067600000, H04N0001600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Mr.Narender Chinthamu
 Address of Applicant :MIT (Massachusetts Institute of Technology) CTO Candidate, Enterprise Architect, USA -----
2)Bhukya Shankar
3)Dr. N Kumaran
4)Dr. Siddharth Misra
5)Dr.Pydimarri Padmaja
6)Ms. M.N.Bhavana
7)Dr. Parita Jain
8)Dr.N.Parvin
9)Mr. China Raju Manda
10)Marrapu Aswini Kumar
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)Mr.Narender Chinthamu
 Address of Applicant :MIT (Massachusetts Institute of Technology) CTO Candidate, Enterprise Architect, USA -----
2)Bhukya Shankar
 Address of Applicant :Senior Assistant Professor, Department of Electronics and Communication Engineering, CVR College of Engineering, Ibrahimpatnam, Telangana, India - -----
3)Dr. N Kumaran
 Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Dhanalakshmi Srinivasan University, Samayapuram, Trichy-112, Tamilnadu, India ----- --
4)Dr. Siddharth Misra
 Address of Applicant :Assistant Professor Grade I, XIM University, Bhubaneswar, India -----
5)Dr.Pydimarri Padmaja
 Address of Applicant :Professor, Department of Electronics and Communication Engineering, Teegala Krishna Reddy Engineering College, Meerpet, Hyderabad-500097 -----
6)Ms. M.N.Bhavana
 Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Sri Venkatesa Perumal College of Engineering and Technology (Autonomous), Puttur, Chittoor District, Andhra Pradesh, India -----
7)Dr. Parita Jain
 Address of Applicant :Associate Professor, Department of CSE, KIET Group of Institutions, Ghaziabad, Delhi-NCR, India -----
8)Dr.N.Parvin
 Address of Applicant :Head Cum Assistant Professor, Department of Computer Science, Adhiyaman Arts and Science College for Women, Uthangarai, Krishnagiri (Dt), Tamilnadu, India -----
9)Mr. China Raju Manda
 Address of Applicant :Assistant Professor, Department of ECE, JNTUGV College of Engineering Vizianagaram, Andhra Pradesh-535003, India -----
10)Marrapu Aswini Kumar
 Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Centurion University of Technology and Management, Andhra Pradesh, Vizianagaram, India -- -----

(57) Abstract :
 The invention presents an integrated system and method for image filtering that leverages the power of Field-Programmable Gate Arrays (FPGAs) and machine learning to achieve efficient and adaptive image processing. The system incorporates a dynamic filter selection mechanism driven by a machine learning model, which intelligently chooses between linear and morphological filters based on image characteristics. This innovation allows for real-time image processing with reduced computational overhead. The FPGA-based hardware platform ensures parallel processing, further enhancing efficiency. Applications span diverse domains, including medical diagnostics, autonomous vehicles, satellite imaging, and security systems. This invention holds the potential to revolutionize image processing, making it faster, more accurate, and adaptable to various scenarios, ultimately impacting fields that rely on image data analysis.

No. of Pages : 22 No. of Claims : 10

(54) Title of the invention : DETECTION OF FAKE NEWS USING MACHINE LEARNING

(51) International classification :G06N0020000000, H04L0051020000, G06N0005020000, G08G0001017000, G01C0021340000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Mr. H. M. Moyeenudin
 Address of Applicant :Assistant Professor, School of Hotel and Catering Management, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai – 600 117, Tamilnadu, India. -----

2)Ms. Gomathy M
3)Dr. Kanimozhiraman
4)Dr. S. Sajithabanu
5)Ms. Jasphin Jeni Sharmila P
6)Dr. Panem Charanarur
7)Mr. M.Sabari Ramachandran
8)Dr. M. Mohamed Rafi
9)Mr. G. Balamurugan
10)Dr. A. Manimaran
11)Dr. Jose Anand
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mr. H. M. Moyeenudin
 Address of Applicant :Assistant Professor, School of Hotel and Catering Management, Vels Institute of Science Technology and Advanced Studies, Pallavaram, Chennai – 600 117, Tamilnadu, India. -----

2)Ms. Gomathy M
 Address of Applicant :Assistant Professor, Department of Computer Application, Banarsidas Chandiwala Institute of Information Technology, Chandiwala Estate, Maa Anandmai Marg, Kalkaji, New Delhi – 110019, India. -----

3)Dr. Kanimozhiraman
 Address of Applicant :Associate Professor, Department of Mathematics, KCG College of Technology, Karapakkam, Chennai – 600 097, Tamilnadu, India. -----

4)Dr. S. Sajithabanu
 Address of Applicant :Associate Professor, Department of IT, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623806, India. -----

5)Ms. Jasphin Jeni Sharmila P
 Address of Applicant :Assistant Professor, Department of CSE, Chennai Institute of Technology, Kunrathur, Kancheepuram – 600069, TamilNadu, India. -----

6)Dr. Panem Charanarur
 Address of Applicant :Assistant Professor, Department of Cyber Security and Digital Forensics, National Forensic Sciences University, Tripura Campus, Agartala, Tripura – 799006, India. -----

7)Mr. M.Sabari Ramachandran
 Address of Applicant :Assistant Professor, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamilnadu – 623806, India. -----

8)Dr. M. Mohamed Rafi
 Address of Applicant :Professor & Head, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623806, India. -----

9)Mr. G. Balamurugan
 Address of Applicant :Assistant Professor, Department of MCA, Mohamed Sathak Engineering College, Kilakarai, Ramanathapuram, Tamil Nadu – 623517, India. -----

10)Dr. A. Manimaran
 Address of Applicant :Professor, Department of CSE, Saveetha School of Engineering, SIMATS, Chennai, Kanchipuram District - 600124, Tamil Nadu, India. -----

11)Dr. Jose Anand
 Address of Applicant :Professor, Department of ECE, KCG College of Technology, Karapakkam, Chennai – 600 097, Tamil Nadu, India. -----

(57) Abstract :
 The work developed in this project was born from the need to somehow stop the growing spread of fake news shared by citizens in general on digital media. This is why it was proposed to develop a viable product that helps in the automatic identification of fake news with machine learning techniques. To implement this solution, it was decided to take into account alternative attributes to directly process the text of the news that could determine its veracity, such as the percentage of capital letters in the title or the number of question marks. As a result of what was described, a chatbot was obtained implemented in Amazon Lex integrated with Facebook Messenger that receives the title and text of the news, then these parameters are processed by the machine learning model and finally the user is responded to if the news is true or false and with what probability. Accompanied Drawing [FIG. 1] [FIG. 2][FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7][FIG. 8] [FIG. 9] [FIG. 10]

No. of Pages : 24 No. of Claims : 4

(54) Title of the invention : INNOVATIVE WATER TREATMENT SYSTEM FOR EFFICIENT STORMWATER MANAGEMENT AND QUALITY IMPROVEMENT

<p>(51) International classification :G06Q0050260000, C02F0103000000, C02F0003340000, C02F0003320000, E03F0001000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Chandran Masi Address of Applicant :Professor, Department of Biotechnology, Dhanalakshmi Srinivasan Engineering College, Thuraiyur Road, Perambalur- 621212 ----- 2)Thanikasalam Arumugam 3)Dr. Kolla Naga Sreenivasa Rao 4)Pendlimarri Manisha 5)Dr. Nageswararao Cheepurupalli 6)Dr. Anuradha Bhagavandin 7)Ms. Pichikala Varsha 8)Dr. Rakesh Kumar Pandey 9)Dr. S. Sundararajan 10)Dr. Sudevi Basu Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Chandran Masi Address of Applicant :Professor, Department of Biotechnology, Dhanalakshmi Srinivasan Engineering College, Thuraiyur Road, Perambalur- 621212 ----- 2)Thanikasalam Arumugam Address of Applicant :Assistant Professor, Department of Marine Engineering, Academy of Maritime Education and Training (AMET) Deemed to be University, 135, East Coast Road, Kanathur, Chennai – 603112, India ----- 3)Dr. Kolla Naga Sreenivasa Rao Address of Applicant :Professor & Head, Department of Civil Engineering, Chalapathi Institute of Technology, Mothadaka, Guntur-522016 ----- 4)Pendlimarri Manisha Address of Applicant :Assistant Professor, Department of Civil Engineering, Jntuniversity Anantapur College of Engineering, Muddanur Rd, Pulivendula, Andhra Pradesh 516390 ----- 5)Dr. Nageswararao Cheepurupalli Address of Applicant :Associate Professor, Department of Mineral Processing and Metallurgical Engineering, Faculty of Mines, Aksum University, Ethiopia ----- 6)Dr. Anuradha Bhagavandin Address of Applicant :Chemist, Chemical Division, Geological Survey of India (GSI), Bandlaguda, Hyderabad – 500068, India ----- 7)Ms. Pichikala Varsha Address of Applicant :Assistant Professor, Department of Petroleum Engineering & Petrochemical Engineering, UCEK, JNTUK Kakinada, East Godavari District AP – 533003 ----- 8)Dr. Rakesh Kumar Pandey Address of Applicant :Associate Professor, Civil Engineering, MATS University Raipur, Chhattisgarh, Pin-493441 ----- 9)Dr. S. Sundararajan Address of Applicant :Teaching Assistant, Alagappa Institute of Skill Development, Alagappa University, Karaikudi ----- 10)Dr. Sudevi Basu Address of Applicant :Assistant Professor, Department of Biotechnology, Sir M Visvesvaraya Institute of Technology, Bengaluru -----</p>
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(57) Abstract :
The proposed water treatment system offers an innovative and comprehensive approach to address the growing challenges of urban stormwater management and water quality improvement. Combining advanced filtration technology, real-time monitoring capabilities, and eco-conscious practices, this system captures and treats stormwater contaminants efficiently, reducing the risk of pollution and environmental damage. Its adaptability to various urban environments ensures customized solutions that meet local requirements, while its smart sensor system enables data-driven decision-making for optimized resource utilization. Embracing sustainability, the system incorporates permeable surfaces, green infrastructure, and biofiltration methods to promote eco-friendly urban development. Additionally, its resilience against intense rain events prevents flooding, safeguarding urban infrastructure and public safety. This cost-effective invention ensures regulatory compliance, ultimately contributing to more sustainable, resilient, and environmentally responsible urban development practices.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002082 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : RULE BASED APPROACH FOR LOCALIZING FAULTS IN COMBINATORIAL TESTING

(51) International classification :G06F0011360000, H04L0041067700, G06F0011070000, G06F0011263000, G06F0011220000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dayananda Sagar College of Engineering

Address of Applicant :Shavige Malleswara Hills, Kumaraswamy Layout, Bangalore Bangalore -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Rekha Jayaram

Address of Applicant :Department of Information Science and Engineering, Dayananda Sagar College of Engineering, Shavige Malleswara Hills, Kumaraswamy Layout, Bangalore-560111 Bangalore -----

2)Dr. R. Krishnan

Address of Applicant :Department of Computer Science and Engineering, Dayananda Sagar College of Engineering, Shavige Malleswara Hills, Kumaraswamy Layout, Bangalore-560111 Bangalore -----

(57) Abstract :

Combinatorial Testing is a method for systematically testing software using a limited number of test cases without compromising on the quality of testing. Combinatorial Testing generates test cases such that each test case will have 2 or more parameters combined based on different combination strategies. Combinatorial Testing has been proven to be a very effective method for testing software systems where faults occur due to parameter interactions. It tests all possible, discrete combinations of parameters involved and detects parameter interactions that trigger system faults. Not all parameters are relevant to the defects found. Hence, locating the minimal subset of parameters that caused the fault will help in faster and effective debugging of the failure. This process of identifying the minimal subset of parameters that caused a failure is called Fault Localization. Fault Localization helps in deducing the exact source of a failure from a set of observed failure indications. It is considered the most important step of Fault Management.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002145 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A FALL DETECTION SYSTEM AND METHOD THEREOF

(51) International classification :G08B0021040000, H04W0052020000, B64C0039020000, G01C0021000000, G16Z0099000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MOHAMMED MUZAKKIR SHARIEEF

Address of Applicant :25, MARAPPA BLOCK, BANGALORE, KARNATAKA, INDIA, Bangalore -----

2)ALAGAR KRISHNA B

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)MOHAMMED MUZAKKIR SHARIEEF

Address of Applicant :25, MARAPPA BLOCK, BANGALORE, KARNATAKA, INDIA, Bangalore -----

2)ALAGAR KRISHNA B

Address of Applicant :NO. 12, 1ST MAIN ROAD, KRISHNANAGAR, KOTHNUR, JP NAGAR 8TH PHASE, BENGALURU, KARNATAKA, INDIA Bangalore -----

(57) Abstract :

ABSTRACT A FALL DETECTION SYSTEM AND METHOD THEREOF A fall detection system (100) and a method (500) thereof are disclosed. The system (100) comprises a throttle (102) configured to maintain current flow towards a motor (110) of a vehicle. At least one sensor (104) is operationally coupled to the throttle (102). The at least one sensor (104) is configured to detect real-time orientation of the vehicle with respect to the ground. Further, at least one processor (106) is operationally coupled the at least one sensor (104) and the throttle (102). The at least one processor (106) is configured to receive the detected orientation of the vehicle in real-time; and disengage a throttle signal to the motor (110) of the vehicle when the detected orientation is greater than a predetermined angle.

No. of Pages : 21 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002162 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVELOPMENT OF OPTICAL FIBER BIOSENSOR FOR OCHRATOXIN-A DETECTION IN REAL CEREAL PRODUCTS

(51) International classification :G01N0021552000, G01N0021640000, G01N0033543000, G01N0021770000, C12Q0001682500
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Koneru Lakshmaiah Education Foundation
Address of Applicant :Koneru Lakshmaiah Education Foundation, Green Fields, Vaddeswaram, Guntur Distrtrict, Andhra Pradesh, India, 522302 Guntur -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)Sandip Swarnakar
Address of Applicant :Department of ECE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, Andhra Pradesh, India 522302 Guntur -----
2)Ragini Singh
Address of Applicant :Department of Biotechnology, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, Andhra Pradesh, India 522302 Guntur -----
3)Santosh Kumar
Address of Applicant :Department of ECE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur, Andhra Pradesh, India 522302 Guntur -----

(57) Abstract :

ABSTRACT Development of Optical Fiber Biosensor for Ochratoxin-A Detection in Real Cereal Products This study explores a fiber optic WaveFlex biosensor operating on localized surface plasmon resonance (LSPR) for Ochratoxin-A (OTA) detection. Gold nanoparticles (AuNPs) were utilized to stimulate the LSPR phenomenon on the probe surface. Enhancing the LSPR effect, a WaveFlex-type fiber optic sensor was engineered from single-mode fiber, intensifying evanescent waves (EWs) for a robust LSPR excitation. Modifying the dielectric environment of AuNPs with MWCNTs and WS2-QDs finely tuned the LSPR behavior, amplifying the sensor's performance. Rigorous testing encompassing repeatability, reproducibility, stability, and selectivity was conducted, showcasing a linear detection range of 0 to 60 ng/mL and a detection limit of 4.45 ng/mL. OTA detection in corn and beer indicated recovery rates between 84.6% to 100% and 84.5% to 92.1%, respectively, underscoring the sensor's promising performance in real food samples.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002220 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR ENABLING USERS TO INTERACTIVELY GENERATE AND MODIFY IMAGES

(51) International classification :G06N0003080000, G06N0003040000, G06T0011000000, G06T0007330000, G06F0016583000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)VIT-AP University

Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)TEKI. HARSHA VARDHAN SAI KUMAR

Address of Applicant :Undergraduate Student, SCOPE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----

2)SAGAR DHANRAJ PANDE

Address of Applicant :Assistant Professor Sr. Grade 1, SCOPE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----

3)SURENDRA REDDY VINTA

Address of Applicant :Associate Professor Sr. Grade 1, SCOPE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----

(57) Abstract :

Present disclosure discloses a data encryption system (102) with enhanced area efficiency architecture and method thereof. System (102) receives at least one data packet comprises of plurality of real images from one or more computing devices (108) associated with at least one user (106). System (102) determines architecture of the at least one deep neural network. System (102) trains a generator to generate at least one synthetic image. System (102) trains a discriminator based on the synthetic image and the plurality of real images to correctly distinguish between the at least one synthetic image and the plurality of images. System (102) trains deep neural network to generate at least one new image and transfers the new image to the generator to improve the quality of the new image. System (102) displays the new image post-processed to the user to alter the new image generated to a desired form.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002221 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A WIRELESS ROBOT SYSTEM FOR SURVEILLANCE AND EXPLORATION PURPOSES, AND METHOD THEREOF

<p>(51) International classification :G08B0013196000, B25J0009160000, H04N0007180000, F21Y0115100000, H04N0021488000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)KUCHIPUDI ABHIRAM Address of Applicant :Student, SENSE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -- -----</p> <p>2)KANTIPUDI DURGA NAVEEN Address of Applicant :Student, SENSE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -- -----</p> <p>3)NEHA GUPTA Address of Applicant :Assistant Professor Sr. Grade II, SENSE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>4)ANOOP KUMAR MISHRA Address of Applicant :Senior Associate Professor, School of Electronics Engineering SENSE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p> <p>5)ASHISH GUPTA Address of Applicant :Assistant Professor Sr. Grade II, School of Electronics Engineering SENSE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----</p>
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(57) Abstract :
Present invention discloses a wireless robot system for surveillance and exploration purposes, and method thereof. The system 100 may comprise of the at least one robot 102 and the at least one remote control station 104. The at least one robot transmits at least one video stream in real-time for surveillance and exploration purposes. The remote control station provides interface for controlling the at least one robot 102 and viewing the at least one video stream to perform surveillance based event detection and exploration purposes. The at least one robot 102 may comprise of at least one body frame with one or more wheels, at least one motor driver, one or more sensors, at least one image capturing unit, at least one microcontroller, and at least one wireless network module. The system provides surveillance and send notification to inform the user regarding the event occurred, and performs exploration purposes.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002242 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF ISOQUINOLINONE COMPOUNDS

(51) International classification :A61K31/47,
A61P29/00

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRM UNIVERSITY

Address of Applicant :Amaravati, Mangalagiri, Andhra Pradesh-522502, India Guntur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SUBRAMANIYAN MANNATHAN

Address of Applicant :Department of Chemistry, SRM University AP, Neerukonda, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur -----

2)RAMARAJU KORIVI

Address of Applicant :Department of Chemistry, SRM University AP, Neerukonda, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur -----

(57) Abstract :

ABSTRACT A PROCESS FOR THE PREPARATION OF ISOQUINOLINONE COMPOUNDS The present disclosure relates to a process for the preparation of isoquinolinone compounds. The process of the present disclosure is simple, efficient, economical, environment friendly and provides isoquinolinone compounds with a comparatively high yield and high purity. The process of the present disclosure is carried out without a metal catalyst or a photo catalyst.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002245 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IOT,AND BIG DATA BASED WEARABLE HEALTHCARE SYSTEM TO IMPROVE NEXT GENERATION HEALTHCARE SYSTEM

<p>(51) International classification :H04L0009320000, H04W0004700000, G06N0020000000, H04L0067120000, H04W0004380000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Mayank Katiyar Address of Applicant :Programmer, Department of Computer Science and Technology, Jain University, NH - 209, Jakkasandra post, Kanakpura road. Ramanagara Bengaluru India ----- 2)Sunita Joshi 3)Ajai Singh 4)Dr. Neha Gupta 5)Ms Susmitha K 6)Dr S Jumlesha 7)Chakravarthula Malathi 8)Ms.p.poornima 9)Duggi Nagabhushanam 10)Soni Gupta Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mayank Katiyar Address of Applicant :Programmer, Department of Computer Science and Technology, Jain University, NH - 209, Jakkasandra post, Kanakpura road. Ramanagara Bengaluru India ----- 2)Sunita Joshi Address of Applicant :Assistant Professor, Department of Computer Applications, Manav Rachna International Institute of Research and Studies, Sector 43, Surajkund Road, Faridabad Haryana India ----- 3)Ajai Singh Address of Applicant :Assistant Professor, Department of Management Doon Business School, Mi 122, Selaqui, Dehradun Uttarakhand India ----- 4)Dr. Neha Gupta Address of Applicant :Professor Department of Computer Applications, Manav Rachna International Institute of Research and Studies, Sector 43, Surajkund Road, Faridabad Haryana India ----- 5)Ms Susmitha K Address of Applicant :Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences, Tirupati Andhra Pradesh India ----- 6)Dr S Jumlesha Address of Applicant :Professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences, Tirupati Andhra Pradesh India ----- 7)Chakravarthula Malathi Address of Applicant :Assistant professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences Tirupati Andhra Pradesh India ----- 8)Ms.p.poornima Address of Applicant :Assistant professor, Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences Tirupati Andhra Pradesh India ----- 9)Duggi Nagabhushanam Address of Applicant :Assistant Professor Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences Tirupati Andhra Pradesh India ----- 10)Soni Gupta Address of Applicant :Faculty Department of AIAE, Amity university Uttar Pradesh and PhD scholar Amity university Rajasthan Amity university Uttar Pradesh, Noida Uttar Pradesh India -----</p>
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(57) Abstract :
IoT, and Big Data based Wearable Healthcare system to improve next generation healthcare system Abstract: The Internet of Things (IoT) is pervasive in numerous industries, including agriculture, smart cities, civil engineering, consumer products, and oil and gas. Furthermore, apart from these practical uses, it is also applicable in the field of medicine for the swift evaluation of a multitude of health indicators and the detection and treatment of a variety of disorders. The resolution of health issues has emerged as a critical concern within the healthcare sector. The Internet of Things (IoT) comprises real-time response systems, intelligent processing, and pervasive computation. The integration of mechanisms, devices, and sensors facilitates the establishment of machine-to-machine communication, representing a pragmatic alternative to address the perpetual challenges of a technologically advanced society. This chapter delves into the potential of leveraging the Internet of Medical Things (IoMT), also referred to as the IoT, to improve healthcare systems. In healthcare applications, the integration of nanotechnology and the Internet of Things (IoT), also referred to as the Internet of Nano Things (IoNT), has yielded substantial benefits. The convergence of the Internet of Things (IoT) and the Internet of Medical Things (IoMT) represents a highly auspicious domain of study with substantial prospective value. The Physical Unclonable Function (PUF) healthcare application technology, which effectively mitigates a number of privacy and security concerns, is described in this study. The expansion of healthcare systems founded on the Internet of Things is inextricably linked to concerns regarding the security of data transfer, dependability, and interoperability. This chapter delves into the challenges and potential remedies associated with healthcare costs in the contemporary era, with a particular focus on the economic implications of technology-driven progress. The methodology utilised in this chapter is likely to captivate readers who are not highly informed. An analysis of the imminent ramifications of the Internet of Medical Things (IoMT) would prove advantageous to motivated students. The integration of Internet of Things (IoT) technology into healthcare systems will augment the scholarly investigation of emerging researchers.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002247 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROCESS OF DEVELOPING ECO-FRIENDLY NONWOVEN NATURAL FIBER VEIL

(51) International classification :B32B0005260000, B32B0005020000, C08J0005240000, C08J0005040000, A42B0005000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Satish S Bhairannawar
 Address of Applicant :Professor & Dean III – Industry Institute Interface Dept. of ECE SDM College of Engineering & Technology, Kalaghatagi Road -----

2)Principal
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr.P.S. Shivakumar Gouda
 Address of Applicant :Dept. of Mechanical Engineering, SDMCET Dharwad -----

2)Dr. I. Sridhar
 Address of Applicant :Professor, Dept. of Mechanical Engineering, SDMCET Dharwad -----

3)Mr. Vinayak Shivanand Uppin
 Address of Applicant :Junior Research Fellow, Dept. of Mechanical Engineering, SDMCET Dharwad -----

4)Mr. Aravind B. Muddebihal
 Address of Applicant :Junior Research Fellow, Dept. of Mechanical Engineering, SDMCET Dharwad -----

5)Dr. Abilash Desai
 Address of Applicant :Assistant Professor, Dept. of Mechanical Engineering, SDMCET Dharwad -----

(57) Abstract :

ABSTRACT: In response to the environmental challenges posed by synthetic fiber-reinforced polymer (FRP) composite materials, this work presents a groundbreaking innovation in the form of a Natural Fiber Nonwoven Veil designed for composite structure applications. Synthetic veils are commonly used to improve the interfacial bonding, and impact resistance and to improve the aesthetic look of FRP composites, these veils have very vital effects on the environment. This work addresses these issues by introducing a sustainable alternative- a nonwoven veil crafted entirely from natural fibers. By addressing the drawbacks of synthetic veils, such as limited biodegradability and environmental impact, this invention leads to a new era of eco-friendly veils for composite applications. The natural fiber veil provided in this patent has improved biodegradability, interlaminar fracture toughness, and adaptability which helps to diversify the application of Natural Fiber Nonwoven Veils in different sectors.

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441002257 A

(19) INDIA

(22) Date of filing of Application :11/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A HYBRID POWER GENERATION SYSTEMS AND METHODS

(51) International classification :F03B13/10, F03D1/00, H02J3/32, H02J3/38, H02J7/00, H02S10/12, H02S40/38
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr. Srikumar Biradar

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Atria Institute of Technology, Bangalore – 560024 Bangalore Urban -

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Srikumar Biradar

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Atria Institute of Technology, Bangalore – 560024 Bangalore Urban -----

2)Dr Shivashankar Hiremath

Address of Applicant :Associate Professor, Department of Mechatronics Manipal Institute of Technology, Manipal Academy of Higher Education, Manipal-576104 Udupi -----

3)Dr. N V Sararathbabu Goriparti

Address of Applicant :Associate Professor Department of Electrical and Electronics Engineering, Ramachandra College of Engineering, Eluru - 534001 West Godavari -----

4)Prof. Prem Chand R

Address of Applicant :Assistant Professor Department of Robotics & Artificial Intelligence Bangalore Institute of Technology- 560004 Bengaluru Urban -----

5)Dr. Chandra Shekar A

Address of Applicant :Assistant Professor Department of Robotics & Artificial Intelligence Bangalore Institute of Technology -560004 Bengaluru Urban -----

6)Prof. Chowda Reddy C

Address of Applicant :Assistant Professor Department of Mechanical Engineering C Byregowda Institute of Technology, Kolar - 563101 KOLAR -----

7)Prof. Chandrasekhar G L

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Sri Sai Ram College of Engineering, Anekal, Bengaluru - 562106 Bengaluru Urban -----

8)Dr. Harish Kumar N S

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Atria Institute of Technology, Bangalore – 560024 Bengaluru Urban -----

9)Dr. Manjunatha C J

Address of Applicant :Assistant Professor Department of Mechanical Engineering, Atria Institute of Technology, Bangalore – 560024 Bengaluru Urban -----

10)Prof. Ansar Shaik Satulur

Address of Applicant :Associate Professor Department of Electrical and Electronics Engineering, Tirumala Engineering College Jonnalagadda-522601 GUNTUR -----

(57) Abstract :

A hybrid power generation system (100) and method (200), comprising:a plurality of renewable energy unit (102) for acquiring renewable source of energy from a plurality of renewable energy source, wherein the plurality of renewable energy unit (102) comprises of:a photovoltaic unit (102a) for collecting solar energy and converting the collected solar energy into electrical energy;a wind turbine (102b) for collecting wind energy and converting the collected wind energy into electrical energy; anda hydro turbine (102c) for collecting hydro energy and converting the collected hydro energy into electrical energy; anda battery unit (104) for storing the generated electrical energy, wherein the stored electrical energy is supplied to a power grid (106) for distribution of the energy across a load (108).

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441003252 A

(19) INDIA

(22) Date of filing of Application :17/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : MACHINE LEARNING-DRIVEN CROP YIELD PREDICTION FOR SUSTAINABLE AGRICULTURE

(51) International classification :G06Q0050020000, G06Q0010040000, G06N0003040000, H01L0021660000, G06N0003080000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PRAVEEN KUMAR K
 Address of Applicant :UNIVERSITY OF VISVESVARAYA COLLEGE OF ENGINEERING, K R CIRCLE, DEVARAJ URS ROAD, BENGALURU, KARNATAKA-560001. -----

2)Dr S H. MANJULA
3)ANIL D
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)PRAVEEN KUMAR K
 Address of Applicant :UNIVERSITY OF VISVESVARAYA COLLEGE OF ENGINEERING, K R CIRCLE, DEVARAJ URS ROAD, BENGALURU, KARNATAKA-560001. -----

2)Dr S H. MANJULA
 Address of Applicant :UNIVERSITY OF VISVESVARAYA COLLEGE OF ENGINEERING, K R CIRCLE, DEVARAJ URS ROAD, BENGALURU, KARNATAKA-560001. -----

3)ANIL D
 Address of Applicant :UNIVERSITY OF VISVESVARAYA COLLEGE OF ENGINEERING, K R CIRCLE, DEVARAJ URS ROAD, BENGALURU, KARNATAKA-560001. -----

(57) Abstract :

This patent introduces the Crop Yield Prediction Algorithm (CYPA), a cutting-edge system that integrates climate, weather, agricultural yield, and chemical data to empower policymakers and farmers with the ability to anticipate annual crop yields effectively. The CYPA utilizes Internet of Things (IoT) techniques within precision agriculture to enhance the accuracy of predictions. The algorithm employs five Machine Learning models, each meticulously trained and verified with optimal hyper-parameter settings. By employing big data databases, the CYPA accommodates a multitude of variables, including water and nutrient deficits, pests, and illnesses, providing a comprehensive understanding of the cumulative impacts on crop yields throughout the growing season.

Traditional approaches in crop yield prediction often incorporate environmental conditions such as rain and sunlight, as well as agricultural factors like soil type and nutrient levels. However, this patent addresses the challenges associated with data collection by introducing a novel method for third-party prediction. The CYPA simplifies the complex technological aspects of the prediction process, bridging the gap between advanced analytics and practical application for farmers. By leveraging the capabilities of big data analysis, the system enables in-depth examinations of meteorology, technology, soil characteristics, and plant species, contributing to a more informed and efficient decision-making process for sustainable agriculture. This innovative solution aims to revolutionize the way crop yield predictions are generated and communicated, ultimately benefiting farmers and policymakers alike in their pursuit of sustainable agricultural practices.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441003525 A

(19) INDIA

(22) Date of filing of Application :18/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PHARMACEUTICAL COMPOSITION AND METHOD OF PREPARING THE PHARMACEUTICAL COMPOSITION

(51) International classification :A61K36/906, A61K36/9066, A61K8/97, A61K9/00, A61P35/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)R. V. College of Engineering

Address of Applicant :Mysore Road, R.V. Vidyaniketan post, Bengaluru - 560059, Karnataka, India. Bengaluru -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)AH Manjunatha Reddy

Address of Applicant :# 1301, Sepia Block, HM World City, JP Nagar 9th Phase, Bengaluru - 560062, Karnataka, India.

Bengaluru -----

2)Sumathra Manokaran

Address of Applicant :# 2117 Sunbeam 2, Sobha Hillview Apartments, Uttarahalli village, Maneverthakaval, Bengaluru-560109, Karnataka , India Bengaluru -----

3)Priyanka R

Address of Applicant :No 118/32. 1st B cross, Chikkabommasandra cross Yelahanka New Town, Bengaluru - 560064, Karnataka, India Bengaluru -----

(57) Abstract :

Disclosed is a pharmaceutical composition includes curcumin ranging from 1 to 2 percent of the pharmaceutical composition, demethoxycurcumin ranging from 0.01 to 0.08 percent of the pharmaceutical composition, bisdemethoxycurcumin ranging from 0.001 to 0.005 grams of the pharmaceutical composition, Xanthorrhizol ranging from 1 to 4.5 percent of the pharmaceutical composition, Isofuranogermacrone ranging from 10 to 11.5 percent of the pharmaceutical composition, and Germacrone ranging from 2-8 percent of the pharmaceutical composition. The present disclosure also relates to a method of preparing a formulation comprising Curcuminoid crystals and volatile bioactives from Curcuma aromatica.

No. of Pages : 16 No. of Claims : 10

(54) Title of the invention : HIGH LEVEL SECURE MONEY TRANSACTION BY USING QRPA MACHINE LEARNING ALGORITHM

(51) International classification :G07F0019000000, G06Q0020100000, G06Q0010100000, G06Q0020400000, A61K0031255000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)VALLEPU RAMCHARAN

Address of Applicant :GUDUR, TIRUPATI (DIST),

ANDHRA PRADESH-524101. -----

2)VALLEPU CHENCHUVANI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)VALLEPU RAMCHARAN

Address of Applicant :GUDUR, TIRUPATI (DIST), ANDHRA PRADESH-524101. -----

2)VALLEPU CHENCHUVANI

Address of Applicant :GUDUR, TIRUPATI (DIST), ANDHRA PRADESH-524101. -----

(57) Abstract :

This project investigates the intricate journey of a QR code on debit or credit card through an Automated Teller Machine (ATM), from the moment of fetch details inside the QR code to the final withdrawal the fast paced world of contemporarY finance, ATMs'SerVé as vital conduits, seamlessly connecting individuals with their financial resources. Our study unveils ‘the multifaceted layers underlying this seemingly routine transaction. The objectives encompass a comprehensive analysis of the technological, security, énd user experience aspects involved in the ATM interaction. We scrutinize the intricate protocols orchestrating the process, emphasizing the fusion of_ cutting-edge technology and user centric design. Beyond the mechanics, the project delves into the robust security measures fonifying these transactions, ensuring a secure and efficient user experience. This abstract provides a glimpse into the nuanced exploration of the ATM transaction process, highlighting its significance in modern banking. To deciphering the silent symphony from fetch details inside the QR code to withdrawal, unraveling the technological marvels that underpin this indispensable facet of financial interactions

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : A NOVEL ALGORITHM FOR SELECTING THE LEADER NODE IN SOCIAL NETWORKS MODELED AS WEIGHTED MULTI-OBJECTI

(51) International classification :G06Q0050000000, G06Q0010060000, G06N0020000000, H04L0067500000, H04L0067306000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr.S.PRASANNA DEVI
 Address of Applicant :SRMIST, VADAPALANI CAMPUS, CHENNAI,TAMIL NADU-600026. -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.S.PRASANNA DEVI
 Address of Applicant :SRMIST, VADAPALANI CAMPUS, CHENNAI,TAMIL NADU-600026. -----

(57) Abstract :

It's essential to carefully consider the goals of the network and the characteristics of the social structure when selecting a leader for incentivization. The effectiveness of incentivization strategies can vary based on the specific context, the nature of the social network, and the cultural factors at play. In social network analysis, several concepts are used to quantify the importance or prominence of a node within a network like degree centrality and local closeness centrality. Degree centrality in social networks provides a basic measure of how well-connected or central 3 node is based on the number of direct connections it has with other nodes‘ It is a fundamental concept in social network analysis and is often used in combination with other centrality measures to gain a more comprehensive understanding of the network structure. The local closeness centrality of a node is the reciprocal of the sum of the shortest path lengths from that node to all other reachable nodes in iKs local neighbourhood. Nodes with high local closeness centrality are those that can reach other nodes more quickly on average within their immediate vicinity The proposed algorithm can be used to select the leader node in social networks very efficiently based on the objective to select the leader. i.e. If information spread is the primary objective , then leaders can be strategically selected positioned in the network, and incentivizing them can provide a means to strategically influence specific regions or groups within the network. If maintaining connections within community is the objective, then in tightly-knit groups, individuals with high local closeness centrality may be selected as a leader within the community The weights are attached to the concepts used to quantify the importance of a node in order to select the leader node to be incentivized based on the ranking of the objective function value of each node that is obtained using the proposed model. The specific combination of the objective functions in leader selection in social networks will depend on the goals and context of leader selection within a particular social network like . It's common to use a combinaTion of metrics to create a more comprehensive evaluation of potential leaders. Hence, the proposed algorithm gives a new ranking model for leader selection based on maximizing connectivity or influence or engagement, which is considered as a multi-objective optimization or goal fulfilment problem.

No. of Pages : 9 No. of Claims : 7

(54) Title of the invention : FEDERATED LEARNING MODEL FOR MULTIPLE SENSOR DATA FUSION BASED MULTIPLE SOURCE DETECTION PROBLEM

(51) International classification	:G01S0003808000, G01S0005200000, H04N0005225000, G06F0016951000, G01S0003800000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
1)REVATHI K
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
2)NEHA HARDE
3)MADHU SHREE R
4)WASIM YASIN
5)RASHMI T V
6)RIZAVIA SAYEED
7)VISHAKA CHANDRAMULE
8)Dr.NANDINI N
9)SONIA S B
10)SANDHYA M
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)REVATHI K
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
2)NEHA HARDE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
3)MADHU SHREE R
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
4)WASIM YASIN
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, KAMMAVARI SANGHA INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA-560109. -----
5)RASHMI T V
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
6)RIZAVIA SAYEED
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY, BENGALURU, KARNATAKA-560016. -----
7)VISHAKA CHANDRAMULE
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA-560091. -----
8)Dr.NANDINI N
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, Dr.AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA-560049. -----
9)SONIA S B
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, ATRIA INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA-560024. -----
10)SANDHYA M
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, EAST WEST INSTITUTE OF TECHNOLOGY, BENGALURU, KARNATAKA-560091. -----

(57) Abstract :
The goal of this invention is to detect feeble sound or heat radiation signals for the sake of search and rescue operations. The invention developed and presented here will work for both sound signals and heat signals. Better detection will happen if the source is emitting both sound and heat signal. Typical application of this invention is mounting this unit atop drones, robotic vehicles or rescue boats. The primary module of this invention is the circular disk consisting of two radial arrangements of sensors. The arrangements are concentric. The inner circle consists of heat detection IR sensor. The outer circle consists of sound sensors. The height level of the IR sensors is higher than the sound sensors. From a single source, most a person, in case of search and rescue operations, both sound signal and heat radiation will be emitted. The sensory module will receive both signals. In some cases it may receive only one of the two. The reception of signal reaches only one or maximum three sensors at a time due to its direction of arrival. If both the heat radiation and sound signal is obtained then employing proper mathematical models, the accurate direction of arrival of a signal source can be assessed. Employing this sensory module unit connected to an appropriate Data Acquisition System (DAQ) and embedded unit, based on direction of arrival principle, the source direction of the person to be rescued can be identified. Multiple units of the above described system can be employed in a real environment with actual people for real time data set generation. All the data from different units can be collected and parallel federated learning is implemented. Accurate source direction identification can be implemented by the above system and process.

No. of Pages : 10 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441005673 A

(19) INDIA

(22) Date of filing of Application :29/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DESIGN AND FABRICATION OF FIT AND GO BELT

(51) International classification :F25D0025040000, G11C0011560000, B60R0022480000, A45F0004020000, A61N0001360000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)VEL TECH MULTI TECH Dr.RANGARAJAN Dr.SAKUNTHALA ENGINEERING COLLEGE
 Address of Applicant :#42, V61 Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

2)Dr.M.SELVAM
3)HEMA KUMAR K E
4)VENG TESH M
5)NARESH KUMAR L
6)HARIKRISHNAN V
7)VIGNESHWAR V
8)LOKESH E
9)ARUN KUMAR P
10)SHEIK SHABIR BASHA S M

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.M.SELVAM
 Address of Applicant :Faculty, Department of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

2)HEMA KUMAR K E
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

3)VENG TESH M
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

4)NARESH KUMAR L
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

5)HARIKRISHNAN V
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

6)VIGNESHWAR V
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

7)LOKESH E
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

8)ARUN KUMAR P
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

9)SHEIK SHABIR BASHA S M
 Address of Applicant :UG Students, Department Of Mechanical Engineering, Vel Tech Multi Tech Dr. Rangarajan Dr.Sakunthala Engineering College (An Autonomous Institution), #42, Vel Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

(57) Abstract :
 A new paradigm in bell design has been introduced by me Fit and go bell Sys Com, which is a major development in the area. The advanced coil spring system at its heart transforms the way the bell material is stored and deployed. Thanks to [his invention, the belt may now smoothly roll and unroll inside a buckle chamber 'hal was especially designed, guaranteeing a degree of efficiency and ease that was not possible before. Precision spur gears and meshing gears are integrated into the system to increase its rotational force transmission, ensuring a smooth and dependable functioning. This belt surpasses traditional designs by introducing hollow areas into its structure, going beyond its basic purpose. The clever use of these areas to hold accessories makes the belt more than usual a useful accessory—rather, it's a multipurpose instrument. This creative integration improves overall user convenience and maximizes storage capacity. The Fit and go belt System, which combines innovation, usefulness, and versatility, represents a major advancement in Fit and go belt technology and is a robust and versatile solution for daily usage.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441005674 A

(19) INDIA

(22) Date of filing of Application :29/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DISC LOCK USING REMOTE CONTROL

(51) International classification :E05B0047000000, G07C0009000000, H04W0004800000, B62H0005180000, G06F0021620000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)VEL TECH MULTI TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE
 Address of Applicant :#42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMILNADU-600062. -----

2)B.R.ARAVINDH RAJ
3)Dr.M.SELVAM
4)L.UMESH CHANDRA
5)V.MONESH
6)N.P.THILAGAM
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)B.R.ARAVINDH RAJ
 Address of Applicant :Faculty, Department of Mechanical Engineering, Va] Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, #42, Val Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

2)Dr.M.SELVAM
 Address of Applicant :Faculty, Department of Mechanical Engineering, Va] Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, #42, Val Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

3)L.UMESH CHANDRA
 Address of Applicant :UG Students, Department of Mechanical Engineering, Val Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, #42, Val Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

4)V.MONESH
 Address of Applicant :UG Students, Department of Mechanical Engineering, Val Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, #42, Val Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

5)N.P.THILAGAM
 Address of Applicant :UG Students, Department of Mechanical Engineering, Val Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College, #42, Val Tech Road, Vel Nagar, Avadi, Chennai-600062. -----

(57) Abstract :

The remote control disc lock is an innovative security solution designed to enhance the protection of personal belongings, particularly vehicles. This technology integrates a compact disc lock with remote control functionality, enabling users to conveniently secure their possessions from a distance. The system employs advanced wireless communication, enabling seamless interaction between the remote control and the lock unit. Users can engage or disengage the lock with a simple press of a button on the remote, eliminating the need of physical key insertion. The Disc lock itself boasts robust construction, resistant to tampering and weather conditions, ensuring reliable performance and durability. With its user-friendly interface and efficient locking mechanism, the remote control disc lock offers a higher level of security and convenience compared to traditional lock systems. Its Compact size and wireless operation make it an ideal choice for securing motorcycles, bicycles, and other valuables. This abstract explores the design, functionality, and benefits of the remote control disc lock, shedding light on its potential to revolutionize personal security measures. As technology continues to evolve, this innovation showcases how remote controlled devices can enhance everyday security practices, offering users greater peace of mind and ease of use.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441005729 A

(19) INDIA

(22) Date of filing of Application :29/01/2024

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(54) Title of the invention : AUTOMATIC TABLET MONITORING SYSTEM FOR MEMORY LOSS PATIENTS

(51) International classification :A61J0007040000, G16H0040670000, G16H0020100000, A61B0005000000, G06Q0010100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.BHAVANIS
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

2)AISHVARYA.S
3)DANUSHAA.M.S
4)DIVYA.S
5)MERLIN.T
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.BHAVANIS
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

2)AISHVARYA.S
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

3)DANUSHAA.M.S
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

4)DIVYA.S
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

5)MERLIN.T
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS ROAD, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

(57) Abstract :
 The Automatic Tablet Monitoring System proposed in this study addresses the challenges faced by memory loss patients in adhering to their medication schedules. Leveraging a combination of advanced technologies. The system utilizes an RTC to maintain an accurate and synchronized time base, allowing for precise scheduling of medication reminders. An IR sensor is employed to detect the presence of the patient near the medication dispensing area, ensuring that the reminder is delivered to the right individual. To enhance proximity detection, an Ultrasonic sensor is incorporated to provide an additional layer of accuracy in determining the patient's position. Communication is facilitated through GSM technology, enabling the system to send real-time alerts and notifications to caregiver or healthcare providers. In the event of missed doses or delayed medication intake, immediate alerts are sent, allowing for prompt intervention. The integration of a speaker further enhances the system's efficacy by delivering audible reminders and instructions to the patient. The proposed system not only assists in medication adherence but also provides a valuable tool for remote monitoring of patients. Caregivers can remotely access the system to track medication compliance and receive timely updates on the patient's well-being. This innovative solution aims to improve the quality of life for memory loss patients while offering peace of mind to their caregivers through efficient and reliable medication management.

No. of Pages : 6 No. of Claims : 7

(54) Title of the invention : DESIGN AND DEVELOPMENT OF INTERNET OF THINGS (IOT) BASED INTELLIGENT HAIR COMB DEVICE USING ARTIFICI

(51) International classification :A61Q0005000000, A45D0024100000, G06F0003010000, A45D0024000000, A45D0024020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr.RAMESH M.KAGALKAR
 Address of Applicant :DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE, POST, DEVANAHALLI, BENGALURU-562110. -----

2)Dr.SANJEEVAKUMAR M.HATTURE
3)Dr.RASHMI P.KARCHI
4)Dr.SHASHIDHAR G.KOOLAGUDI
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.RAMESH M.KAGALKAR
 Address of Applicant :DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE, POST, DEVANAHALLI, BENGALURU-562110. -----

2)Dr.SANJEEVAKUMAR M.HATTURE
 Address of Applicant :DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE, POST, DEVANAHALLI, BENGALURU-562110. -----

3)Dr.RASHMI P.KARCHI
 Address of Applicant :DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE, POST, DEVANAHALLI, BENGALURU-562110. -----

4)Dr.SHASHIDHAR G.KOOLAGUDI
 Address of Applicant :DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY, MUDUGURKI, VENKATAGIRI KOTE, POST, DEVANAHALLI, BENGALURU-562110. -----

(57) Abstract :
 Technology is transforming consumers daily beauty routines, and smart devices have huge potential to impact how We care for our hair. The basic idea of this innovation is to develop a portable, flexible, and handy smart comb device. 80, this implemented design will revolutionize the hair industry in the coming days. We have come up with a product prototype model called the Intelligent Hair Comb device. This device is an IoT device mat analyzes users' hair types and recommends products accordingly. The sénsors on this hair comb count strokes, determine whether the hair is dry or wet, and analyze the force used when brushing. It even includes a microphone that listens to the sound of hair brushing to provide insights into manageability, fizziness, dryness, split ends, and breakage. It will score the quality of hair and monitor the effects of different hair care routines. The brush will send information via Wifi or Bluetooth to a mobile app, take into account humidity, temperature, and wind. and produce a quality score, ranking hair for damage, breakage, tangling, and dryness. It will then provide hair tips and recommendations. An accompanying mobile app provides additional insights and customized product recomme_ndations to help people better care for their hair. This comb device can also provide haptic feedback you need to lighten up on the brushing intensity, and it is a part of the Internet of Things trend, where [products can communicate with each other, with companies, and with consumers via their smartphones

No. of Pages : 14 No. of Claims : 4

(54) Title of the invention : HERBAL GEL FORMULATION OF MOMORDICA CHARANTIA EXTRACT AS AN ADJUNCT TO SCALING AND ROOT PLANING FOR

		<p>(71)Name of Applicant :</p> <p>1)DR. SHRUTI KARVEKAR Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>2)DR.JASLEEN THAKKER</p> <p>3)DR. VILAS PATTAR</p> <p>4)DR. VINITA KRISHNA</p> <p>5)DR. SHWETA S HUGAR</p> <p>6)DR. SHIVAYOGI M HUGAR</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)DR. SHRUTI KARVEKAR Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>2)DR.JASLEEN THAKKER Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>3)DR. VILAS PATTAR Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>4)DR. VINITA KRISHNA Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>5)DR. SHWETA S HUGAR Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p> <p>6)DR. SHIVAYOGI M HUGAR Address of Applicant :DEPARTMENT OF PERIODONTICS, KLE V.K. INSTITUTE OF DENTAL SCIENCES, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH, NEHRU NAGAR, BELAGAVI, KARNATAKA-590010. -----</p>
(51) International classification	:A61K0036634000, A61K0036420000, A61P0001020000, A61P0003100000, A23L0033105000	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the development of herbal gel with extract of Momordica charantia against Aggregatibacter actinomycetemcomitans (AA), Porphyromonas gingivalis (PG) and Tannerella forsythia (TF) as an adjunct to scaling and root planing for the treatment of moderate periodontitis. Process for preparation of Ge] formulation of Momordica charantia as an adjunct to scaling and root planing for the treatment of moderate periodontitis comprising: Preparation of ethanolic extract of Momordica charantia, Addition of ethanolic extract based on Minimum Inhibitory Concentration and Minimum Bacterial Concentration Momordica with pharmaceutically acceptable corners and excipients that includes Carbopol 934, Hydroxypropyl cellulose, Triethanolamine, Sodium Saccharin and Menthol to form the uniform gel formulation of Momordica charantia.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441006326 A

(19) INDIA

(22) Date of filing of Application :31/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A GAME-BASED VIRTUAL REALITY SYSTEM FOR FOSTERING JOINT ATTENTION IN AUTISTIC KIDS

(51) International classification :A63F0013670000, G09B0019000000, H04N0021442000, H04N0021450000, A61M0016000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)P. VALARMATHI

Address of Applicant :ASSISTANT PROFESSOR, CSE DEPARTMENT, B.S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, VANDALUR, TAMILNADU-600048. -----

2)Dr.A.PACKIALATHA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)P. VALARMATHI

Address of Applicant :ASSISTANT PROFESSOR, CSE DEPARTMENT, B.S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, VANDALUR, TAMILNADU-600048. -----

2)Dr.A.PACKIALATHA

Address of Applicant :ASSISTANT PROFESSOR, CSE DEPARTMENT, B.S ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, VANDALUR, TAMILNADU-600048. -----

(57) Abstract :

This Virtual Reality (VR) system game based method is designed to enhance joint attention skills in autistic children. Leveraging adaptive game-based mechanics, the system creates a captivating and personalized VR environment. The immersive scenarios encourage shared focus on common objects and activities, fostering joint attention in a tailored and engaging manner. Machine learning algorithms dynamically adjust gameplay elements, ensuring an optimal balance between challenge and reward. Real-time feedback and positive reinforcement contribute to a reinforcing feedback loop, motivating the child to actively participate. The system allows for individual user profiling, accommodating diverse preferences and needs. Parental involvement is facilitated through progress monitoring tools, while professional collaboration ensures alignment with therapeutic goals. The project aims to pilot-test and evaluate the effectiveness of Unity In Play, paving the way for a novel approach to addressing joint attention deficits in autistic children through the medium of adaptive VR gameplay.

No. of Pages : 6 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441006329 A

(19) INDIA

(22) Date of filing of Application :31/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR AUTOMATED FACE READING AND ANALYSIS USING MACHINE LEARNING

<p>(51) International classification :A61B0005000000, G06N0020000000, G16H0050300000, G06Q0030020000, G06Q0050000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr.SUNIL TEKALE Address of Applicant :PROFESSOR, HEAD OF DEPT, CSE(AIML), NALLA MALLA REDDY ENGINEERING COLLEGE, HYDERABAD-500088. ----- 2)Dr.K.NIRANJAN REDDY 3)P.VENKATAPATHI 4)GUNRATHI BHARATH KUMAR GOUD 5)SHIVA RAO YANNAM 6)SUFIA ENAYAT Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.SUNIL TEKALE Address of Applicant :PROFESSOR, HEAD OF DEPT, CSE(AIML), NALLA MALLA REDDY ENGINEERING COLLEGE, HYDERABAD-500088. ----- 2)Dr.K.NIRANJAN REDDY Address of Applicant :Associate Professor & HOD Dept of ECE, CMR Institute of Technology, Hyderabad. ----- 3)P.VENKATAPATHI Address of Applicant :Associate professor ECE, CMR Institute of technology, Hyderabad. ----- 4)GUNRATHI BHARATH KUMAR GOUD Address of Applicant :Asst.Professor Malla Reddy College of Eng, Hyderabad-500088. ----- 5)SHIVA RAO YANNAM Address of Applicant :Asst Professor Malla Reddy College of Eng Hyderabad-500088. ----- 6)SUFIA ENAYAT Address of Applicant :Asst Professor Malla Reddy College of Eng Hyderabad-500088. -----</p>
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(57) Abstract :

The present invention discloses a system and method for automated face reading and analysis. The system comprises a digital imaging device for capturing facial images, a processing unit equipped with facial recognition algorithms, and a database for storing facial features and associated data. The method involves capturing facial images, extracting facial features using computer vision techniques, and analyzing the extracted features to infer information about the individual's emotions, personality traits, health conditions, or other relevant attributes. The system utilizes machine learning models trained on large datasets to improve accuracy and reliability in face analysis. Applications of the invention include emotion recognition in human-computer interaction systems, security and surveillance, medical diagnostics, and marketing research. The invention enables efficient and objective analysis of facial data, providing valuable insights for various domains. Today, face reading finds applications in various fields, including psychology, healthcare, security, marketing, and human-computer interaction. Researchers use advanced algorithms to analyze facial expressions, micro expressions, and subtle cues to infer emotions, personality traits, and even health conditions. Facial recognition technology has also become integral to security systems, access control, and identity verification. However, the widespread use of facial recognition technologies has raised ethical concerns regarding privacy, consent, and potential biases. As such, the practice of face reading continues to evolve, prompting discussions about its implications for society and the need for responsible use of facial data. In this introduction, we will explore the historical origins of face reading, its cultural significance, contemporary applications, and the ethical considerations surrounding its practice. By examining both its traditional roots and modern developments, we can gain a comprehensive understanding of the multifaceted nature of face reading in today's world.

No. of Pages : 11 No. of Claims : 8

(54) Title of the invention : DEEP LEARNING BASED OVARIAN CANCER DETECTION USING SPECTRAL DOMAIN OPTICAL COHERENCE TOMOGRAPHY

(51) International classification :G06N20/00, G06N3/08, G06T7/00, G06T7/13

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)RAMCO INSTITUTE OF TECHNOLOGY
 Address of Applicant :KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU-626117. -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr.M.GOMATHY NAYAGAM
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, ASSOCIATE PROFESSOR & HEAD, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

2)Dr.S.ERANA VEERAPPA DINESH
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, ASSISTANT PROFESSOR, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

3)K.USHARANI
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, ASSISTANT PROFESSOR, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

4)B.YAZHINI
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, ASSISTANT PROFESSOR, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

5)M.RUMANA NACHIYAR
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, STUDENT, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

6)T.SANJANASRI
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, STUDENT, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

7)V.AKASH
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, STUDENT, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

8)T.KISHOR
 Address of Applicant :RAMCO INSTITUTE OF TECHNOLOGY, STUDENT, CSBS, RAJAPALAYAM, TAMILNADU-626117. -----

(57) Abstract :

Nowadays, ovarian cancer can be detected in the early stages and treated with a better diagnosis improving substantial accuracy and effective treatment. It is capable of detecting ovarian cancer in a nonsurgical way with acceptable specificity and sensitivity in the developing stage. This helps in improving the life of the patient and the impact found in the patient's treatment. This process requires machine learning, image processing, and imaging with high-quality help in accepting the automatic diagnosis. Machine learning applications never helped in analyzing images of SD-OCT based on the knowledge of literature documents. In this work, spectral domain optical coherence tomography has been used to detect ovarian cancer using convolutional neural network (CNN) and bidirectional long short-term memory. Based on the results our diagnosis achieves better performances in achieving no manual tuning or crafting, in the images of Spectral-domain optical coherence tomography (SD-OCT)

No. of Pages : 9 No. of Claims : 4

(54) Title of the invention : IMPLEMENTING LORA FOR TRACKING AND MANAGING WILDLIFE NEAR RAILWAY TRACKS

(51) International classification :G06N0020000000, B64C0039020000, A01M0031000000, G06N0005040000, B61L0023040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr.R.JAMUNA
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

2)PRADEESHWARAN.R
3)SHANJALU
4)SHANKAR.P
5)SUDHARSUN.D.S
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.R.JAMUNA
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

2)PRADEESHWARAN.R
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

3)SHANJALU
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

4)SHANKAR.P
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

5)SUDHARSUN.D.S
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING,SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062. -----

(57) Abstract :
 This invention introduces a revolutionary system for wildlife tracking near railway tracks, integrating LoRa technology, artificial intelligence, and real-time analytics. Discreet, solar-powered LoRa devices equipped with advanced sensors are affixed to wildlife, ensuring minimal disruption to their natural behavior. LoRa gateways strategically positioned along railway tracks create a robust communication network. Notably, the system employs edge computing on wildlife devices, allowing immediate local data processing and anomaly detection through machine learning algorithms, reducing latency and conserving energy. Automated drone surveillance complements ground-based tracking, providing an aerial perspective for enhanced data collection. An intuitive dashboard accessible to conservationists and railway authorities delivers real-time updates, historical trends, and predictive insights. Block chain technology ensures secure data storage, and a mobile app encourages community engagement by allowing citizens to report wildlife sightings. This inventive approach not only elevates wildlife tracking accuracy but also exemplifies a sustainable coexistence of technology and nature, setting a new standard for responsible wildlife management near railway tracks.

No. of Pages : 8 No. of Claims : 6

(54) Title of the invention : DESIGN AND FABRICATION OF SMART TABLE

(51) International classification :G06F0001160000, G06F0013400000, F21Y0115100000, G06F0013380000, G06F0001200000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)VEL TECH MULTI Dr.RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE
 Address of Applicant :#42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
2)Dr. M. Selvam
3)Dr. K. A. Harish
4)Kumaresan V
5)Devanandh K
6)Suganthan P
7)Syed Abu Thahir Mohamed Shafi
8)P. Arun Kumar
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. M. Selvam
 Address of Applicant :FACULTY, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI Dr.RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE, #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
2)Dr. K. A. Harish
 Address of Applicant :FACULTY, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE, #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
3)Kumaresan V
 Address of Applicant :UG Students, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE(AN AUTONOMOUS INSTITUTION), #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
4)Devanandh K
 Address of Applicant :UG Students, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE(AN AUTONOMOUS INSTITUTION), #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
5)Suganthan P
 Address of Applicant :UG Students, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE(AN AUTONOMOUS INSTITUTION), #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
6)Syed Abu Thahir Mohamed Shafi
 Address of Applicant :UG Students, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE(AN AUTONOMOUS INSTITUTION), #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----
7)P. Arun Kumar
 Address of Applicant :UG Students, DEPARTMENT OF MECHANICAL ENGINEERING, VEL TECH MULTI TECH Dr. RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE(AN AUTONOMOUS INSTITUTION), #42, VEL TECH ROAD, VEL NAGAR, AVADI, CHENNAI, TAMIL NADU, INDIA-600062. -----

(57) Abstract :
 Introducing a cutting-edge smart table with an embedded battery backup system, a USB hub port, a laptop chilling fan, and a wireless charger all flawlessly integrated for the modern workstation. This One-stop shop increases productivity and meets a wide range of user requirements. For charged smartphones, tablets, and other Qi-enabled devices, the wireless charger included into the tables provides a cordless option. In order to meet the need for connectivity, the USB'hub port acts as a centralized connection point that allows laptops, external hard drives, and peripherals to be connected at the same time, encouraging a neat workplace. A built-in fan that cools guarantees efficient heat dissipation to keep laptop performance at its best and prevents overheating when using it for lengthy periods of time. Furthermore, the inbuilt battery backup technology ensures continued work or pleasure by offering 'a dependable powersource' during flun planned interceptions. This sleek and portable smart table; which offers connectivity and convenience in a tiny form factor, represents a major leap forward in workstation innovation.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007602 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PERFORMANCE OF THREE LAYER PLC-SCADA ARCHITECTURE FOR MICRO GRID IN PROCESS OF AUTOMATION AND DATA

(51) International classification :G05B19/05, G06F113/04, H02J13/00

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SRI SAI RAM INSTITUTE OF TECHNOLOGY
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)P.RATHNAVEL
3)B.MANUSUDHAN
4)A.HARISH
5)S.GUNAA
6)G.PRAKASH

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)P.RATHNAVEL
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)B.MANUSUDHAN
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

3)A.HARISH
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

4)S.GUNAA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

5)G.PRAKASH
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

(57) Abstract :

In grid and microgrid is a network a provide power to consumers that are connected by transmission and distribution lines due to natural hazards can affect electrical infrastructure as the result in power outages and human errors are also happen. To avoid this the SCADA architecture use to monitoring data and control it. which is usually three layer SCADA system architecture depending on open system technology rather than a manual controlled, proprietary technology. A Real-time Industrial process is simulated and a complete three-layer model SCADA system is developed for this process, supervision control layer, Process control layer, and field instrument layer. It is used to maintain the power supply in micro grid by calculating and analyzing value (Current, voltage, frequency, temperature) are fed into data base for controlling and modifying the system. The modified SCADA can easy to accessible for user. It can be control by providing feedback and the microcontroller over the renewable energy source for back up use. As the result Three Layer PLC-SCADA system architecture has more benefit than traditional SCADA system.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007603 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTONOMOUS BICYCLE FOR BLIND

(51) International classification :G09B0021000000, A61H0003060000, G05D0001020000, G01C0021340000, G06F0003010000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SRI SAI RAM INSTITUTE OF TECHNOLOGY
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
2)D.ROOPA
3)S.MATHUPRIYA
4)G.SARAVANAN
5)M.SUBASHINI
6)S.RATHIKA
7)S.MUTHU PRIYA
8)R.AMIRTHAVARSHIINI
9)P.RAMYA
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)D.ROOPA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
2)S.MATHUPRIYA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
3)G.SARAVANAN
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
4)M.SUBASHINI
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
5)S.RATHIKA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
6)S.MUTHU PRIYA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
7)R.AMIRTHAVARSHIINI
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----
8)P.RAMYA
 Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

(57) Abstract :
 The Autonomous Bicycles for Visually Impaired Individuals project endeavours to revolutionize personal mobility for individuals with visual impairments by developing an advanced autonomous bicycle; Integrating cutting-edge technologies such as depth—sensing cameras and a GPS module linked with the Google Maps API, the bicycle ensures real-time obstacle detection and optimal path planning. Driven by a central AI computing unit, the system prioritizes user safety and adapts dynamically to diverse environments. Uniquely designed with a focus on non-visual interfaces, including a sophisticated voice assistance system and a haptic feedback mechanism, the bicycle caters to the specific needs of visually impaired riders,. providing real-time information and tactile cues. With features promoting user comfort, such as a motor for pedal assistanCe and an autopilot mode, the project goes beyond mere transportation, aiming to enhance overall well-being. In essence, this project symbolizes a transformative paradigm, blending technology, inclusivity, and empowerment to redefine independence for the visually impaired community.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007605 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED LI-FI TECHNOLOGY FOR SMART ROBOTIC CONTROL

(51) International classification :H02J0003380000, H02M0001000000, H02M0003335000, H02M0007487000, F03D0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRI SAI RAM INSTITUTE OF TECHNOLOGY

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)P.RATHNAVEL

3)G.PRAKASH

4)G.SARAVANAN

5)S.RESHMA

6)S.SAI ISHA

7)K.VANITHA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)P.RATHNAVEL

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)G.PRAKASH

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

3)G.SARAVANAN

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

4)S.RESHMA

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

5)S.SAI ISHA

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

6)K.VANITHA

Address of Applicant :SRI SAIRAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

(57) Abstract :

The renewable energy sources are highly opted in recent times to provide sustainable development. Wind, biomass, geothermal, etc., are few of the existing forms of renewable energy among which wind and solar are considered as the primary ones owing to the characteristics like easy availability and less maintenance. Since these sources highly rely on climate and temperature, hybrid systems are infused combining the wind and solar energy. In this project, propose an efficient intelligent controller for FLY BACK converter with an isolated 63- level inverter for grid connected PV system is implemented. For optimal PV system utilization, an asymmetric cascaded thirtyone - level multilevel inverter (MLI) is introduced in this project as an intermediate stage between converter and grid. The controlling of inverter is made by synchronizing the grid current and voltage and current using the closed loop control technique. FLY BACK converter is used as it has excellent voltage-gain ratio. The Multi carrier PWM controller is proposed to perform the grid synchronization operation. The simulation and modeling of the introduced FLYBACK converter and thirty-one level inverter configurations with their control techniques are done in MATLAB domain so as demonstrate the grid connected PV system performances.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007606 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : VOCALIZER FOR DEAF AND DUMB

(51) International classification :H04W0004800000, G06F0040580000, G06F0003010000, G06Q0020380000, G09B0021000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SRI SAI RAM INSTITUTE OF TECHNOLOGY

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)S.MATHUPRIYA

3)D.ROOPA

4)M.SUBASHINI

5)SWATHI THONDAMANATI

6)K.V.DURGHA VARSHINI

7)K.A.TRISHAA

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)S.MATHUPRIYA

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

2)D.ROOPA

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

3)M.SUBASHINI

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

4)SWATHI THONDAMANATI

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

5)K.V.DURGHA VARSHINI

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

6)K.A.TRISHAA

Address of Applicant :SRI SAI RAM INSTITUTE OF TECHNOLOGY, SAI LEO NAGAR, WEST TAMBARAM, CHENNAI-600044. -----

(57) Abstract :

The Gesture Vocalizer for Deaf and Dumb is a transformative project designed to revolutionize communication for individuals with hearing and speech impairments. Integrating advanced sensor technology, this system captures sign language gestures via flex sensors and an accelerometer embedded in a specialized, designed by an Arduino Uno microcontroller equipped with, a Bluetooth module swiftly glove. These gestures are processed with a comprehensive database. Upon recognition transmits the interpreted gestures to external devices. This project also incorporates modules for internet connectivity via Bluetooth, enabling access to online resources, and language translation, fostering multilingual communication. By leveraging these modules, this innovative system aims to break communication barriers and enhance the quality of life for individuals in the deaf and mute community.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007610 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PLA, PCL BLENDS FOR AUTOMOTIVE APPLICATIONS

<p>(51) International classification :B29C64/118, B32B27/36, B33Y10/00, B33Y70/00, C08J5/18, C08L67/02, C08L67/04</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)P.S.R ENGINEERING COLLEGE Address of Applicant :P.S.R ENGINEERING COLLEGE, SEVALPATTI POST, VEMBAKOTTAI TALUK, VIRUDUNAGAR DISTRICT - 626140. -----</p> <p>2)J.AQIL AHMED 3)Dr.P.AMUTHAKKANNAN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)J.AQIL AHMED Address of Applicant :RESEARCH SCHOLAR, MECHANICAL ENGINEERING, P.S.R ENGINEERING COLLEGE, SEVALPATTI POST, VEMBAKOTTAI TALUK, VIRUDUNAGAR DISTRICT - 626140. -----</p> <p>2)Dr.P.AMUTHAKKANNAN Address of Applicant :ASSOCIATE PROFESSOR, MECHANICAL ENGINEERING, P.S.R ENGINEERING COLLEGE, SEVALPATTI POST, VEMBAKOTTAI TALUK, VIRUDUNAGAR DISTRICT - 626140. -----</p>
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(57) Abstract :

This invention presents a comprehensive system and method for the development and utilization of a bio-composite material tailored specifically for automotive applications. The bio-composite is formulated by combining PLA (Polylactic Acid) and PCL (Polycaprolactone), resulting in a sustainable and versatile material with biodegradable properties. The proposed system incorporates advanced manufacturing techniques, with a primary focus on Fused Filament Fabrication (FFF). This allows for the precise layer-by-layer deposition of the bio-composite material, facilitating the creation of complex and customized automotive components. Key features of the system include rapid prototyping capabilities, enabling efficient iteration and testing of designs, ultimately reducing development time and costs. The bio-composite's eco-friendly nature aligns with modern sustainability initiatives, making it an ideal candidate for various automotive applications. The method emphasizes the integration of renewable resources, ensuring a greener approach to automotive manufacturing. Through careful material selection and process optimization, the system aims to provide a solution that not only meets industry standards but also contributes to the overall reduction of environmental impact in the automotive sector. Keywords: Bio-composite, Automotive Applications, Renewable Resources, Fused Filament Fabrication (FFF), Rapid Prototyping, Mechanical Properties.

No. of Pages : 19 No. of Claims : 6

(54) Title of the invention : DEVELOPMENT OF A LOW COST N-DOPED GRAPHENE DERIVATIVE FROM WOOD CHARCOAL FOR SUPERCAPACITOR APPLICAT

(51) International classification :B01J27/24, B01J37/02, B01J37/08, B82Y30/00, B82Y40/00, C01B32/182, C25B11/043, H01K102/00

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)CHRIST (DEEMED TO BE UNIVERSITY)
 Address of Applicant :HOSUR ROAD, BANGALORE-560029, KARNATAKA, INDIA. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)ELMA ELIZABA MATHEW
 Address of Applicant :Department of Physics and Electronics, CHRIST (Deemed to be University), Hosur Road, Bengaluru, Karnataka-560029, India -----
2)MANOJ B
 Address of Applicant :Department of Physics and Electronics, CHRIST (Deemed to be University), Hosur Road, Bengaluru, Karnataka-560029, India -----

(57) Abstract :

The present invention describes an inexpensive, simple and scalable method to prepare a promising material for super capacitor device fabrication by doping Nitrogen with wood Charcoal at various annealing temperatures. Urea is chosen as the Nitrogen dopant for its low cost, ease of use and having the highest Nitrogen content. The procedure involves simple acids without the involvement of any non-toxic oxidants followed by high temperature annealing at various temperatures, temperature. g agents. The specific capacitance is observed to depend on the annealing time of 1 Mg activator. Thus, the maximum obtained specific capacitance is about 564.4 F/g at a current density of 10 mA/g at 900°C. The Specific Surface Area (SSA) is also found to increase to 220.1 m²/g as a result of raw material N—doping and its change in structure morphology. Hence, Charcoal can be a potential for the fabrication of super capacitors.

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441007699 A

(19) INDIA

(22) Date of filing of Application :05/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SMART H2O PURIFIER ALERT SYSTEM WITH GSM CONNECTIVITY

(51) International classification :C02F0001000000, G01N0033180000, H05B0047115000, H04W0004029000, B01D0046000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)A SENTHILKUMAR

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

2)Rithish R

3)Sanjay R

4)Santhosh P

5)Vishnu R

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)A SENTHILKUMAR

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

2)Rithish R

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

3)Sanjay R

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

4)Santhosh P

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

5)Vishnu R

Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, SRI SHAKTHI NAGAR, L&T BYPASS, CHINNIYAMPALAYAM POST, COIMBATORE-641062, TAMILNADU, INDIA -----

(57) Abstract :

The water filter monitoring alert system described herein is an innovative solution designed to ensure continuous access to clean and safe drinking water. Integrating T05 and pH sensors, the system constantly monitors water quality, detecting deviations from predetermined thresholds. Upon identifying potential contamination, a GSM module is activated to send real-time alerts to users' mobile devices. This proactive approach empowers users to take immediate remedial actions, such as replacing filters or conducting maintenance, thereby safeguarding water quality. The system's versatility allows for optional local indications and real-time monitoring features, enhancing its effectiveness in promoting water safety and public health.

No. of Pages : 6 No. of Claims : 5

(54) Title of the invention : IOT-BASED RAILWAY TRACK MONITORING AND ELEPHANT PROTECTION SYSTEM USING 5G NETWORK

<p>(51) International classification :G01N0033574000, B61L0023060000, B61L0023040000, G08B0007060000, B61B0001020000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)Dr.N.Gopinath Address of Applicant :B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, GST ROAD, VANDALUR, CHENNAI-600048, TAMILNADU, INDIA -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Amrutsingh Jaykumar Patil Address of Applicant :Mechanical Engineering, STES Smt. Kashibai Navale College of Engineering Vadgaon bk, Pune-41. -----</p> <p>2)Suhasini Bagalkot Address of Applicant :Assistant Professor, Department of computer science and Engineering, Rajarajeshwari college of Engineering Bangalore, Karnataka-560074 ssb.suhasini@gmail.com -----</p> <p>3)Swati Dhondiram Jadhav Address of Applicant :Computer Engineering Keystone School of Engineering, Pune-412 308. -----</p> <p>4)Pooja Bramhe Address of Applicant :Assistant professor (ET&T department) Shri Shankaracharya institute of Professional Management And Technology, Raipur Chhattisgarh, 492001 -----</p> <p>5)Manju Address of Applicant :Assistant Professor, Dept of Electrical Engineering, Government Engineering College, Jehanabad, Bihar. -----</p> <p>6)S. Nithya Address of Applicant :Assistant Professor, Department of computer science and Engineering, Sathyabama Institute of Science and Technology, Chennai. -----</p> <p>7)E. Vinothini Address of Applicant :Assistant Professor, Department of computer science and Engineering, Sathyabama Institute of Science and Technology, Chennai. -----</p> <p>8)S. VIDYAVATHI Address of Applicant :ASSISTANT PROFESSOR THEIVANAI AMMAL COLLEGE FOR WOMEN (Autonomous) Villupuram. -----</p> <p>9)M.RAMU Address of Applicant :Assistant Professor, Department Of Information Technology, Dhanalakshmi Srinivasan Engineering College (Autonomous), Perambalur,TamilNadu,India. -----</p> <p>10)N.Gopinath . Address of Applicant :B.S.ABDUR RAHMAN CRESCENT INSTITUTE OF SCIENCE & TECHNOLOGY, GST ROAD, VANDALUR, CHENNAI-600048, TAMILNADU, INDIA -----</p>
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(57) Abstract :
One of the biggest mammals on the planet, elephants can be found in tropical and subtropical parts of Asia and Africa in forests, grasslands, and savannahs. Elephants can be found across India, particularly in its northeastern region, which is covered in dense woods. In this area, railroads offer a practical and affordable way to move both passengers and products: Elephant crashes with trains are becoming more commonplace every day as a result of the low visibility in the woodlands. Over 200 elephants have perished in train accidents in the past ten years. The best course of action in handling this collision issue is to immediately halt the train. A way to identify and track elephants close to railroad tracks is required, as is the ability to examine footage from the camera trap close to the point where railroad tracks and elephant routes converge. In this work, we have built an AI and IOT based framework that enhances the latency, network utilization, and execution time in addition to detecting and monitoring the elephants. When elephants are detected in the corridor, the train control system is notified, and an LED warning light near the train tracks flashes. Additionally, it notifies the closest station master, signal operator, and train loco pilot of the alarm information. Thus, the signal operator notifies the loco pilot and closest rescue squad.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008008 A

(19) INDIA

(22) Date of filing of Application :06/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMPLEMENTATION OF ADVANCED VEHICLE BLACK-BOX SYSTEM USING IOT AND IMAGE PROCESSING

(51) International classification :H04W0004029000, H04W0004800000, H04W0004020000, H04W0004900000, H04W0004380000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PREMA.C
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU, INDIA-641062. -----
2)Rishithilak .M.R
3)Sabari.G
4)Subash Nandha.B
5)Tharun.P
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)PREMA.C
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU-641062. -----
2)Rishithilak .M.R
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU, INDIA-641062. -----
3)Sabari.G
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU, INDIA-641062. -----
4)Subash Nandha.B
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU, INDIA-641062. -----
5)Tharun.P
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU, INDIA-641062. -----

(57) Abstract :
 The present invention introduces an innovative implementation of an advanced vehicle black-box system, seamlessly integrating Internet of Things (IoT) and image processing technologies. The system employs an Arm Cortex processor to orchestrate real-time data capture from strategically placed sensors and cameras within the vehicle. Cutting-edge image processing algorithms enhance incident analysis, allowing for precise detection and documentation. Leveraging IoT connectivity, the system transmits this data to a centralized server, enabling remote monitoring and control. This novel solution significantly improves vehicular incident recording and analysis, offering a compact, efficient, and intelligent approach to enhance road safety and security..

No. of Pages : 6 No. of Claims : 7

(54) Title of the invention : A POLYHERBAL GEL COMPOSITION FOR THE TREATMENT OF ORAL ULCERS IN ANIMALS

(51) International classification :A61K36/23, A61K36/484, A61K36/53, A61K36/58, A61K36/9066, A61K8/97, A61K9/00

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr. N. Narmatha
 Address of Applicant :Dean, Veterinary College and Research Institute, Orathanadu -614 625, Thanjavur, Tamil Nadu -----
2)Dr. G .Kesavan
3)Dr. K. Kannan
4)Dr V Ranganathan
5)Dr.Elamaran
6)Dr. M. J. RaJa
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. N. Narmatha
 Address of Applicant :Dean, Veterinary College and Research Institute, Orathanadu -614 625, Thanjavur, Tamil Nadu -----
2)Dr. G .Kesavan
 Address of Applicant :No.327/47, East street, Sundampatti & Post Gandharvakkottai taluk, Pudukkottai district Tamil Nadu India Pin code 613301 ---
3)Dr. K. Kannan
 Address of Applicant :Assistant Professor, Department of Veterinary Pharmacology and Veterinary College and Research Institute Orathanadu, Thanjavur Tamil Nadu India Pin code -614625 -----
4)Dr V Ranganathan
 Address of Applicant :Professor and Head Department of Veterinary Pharmacology . and Toxicology Veterinary College and Research Institute Orathanadu, Thanjavur,Tamil Nadu India Pin code 614625 -----
5)Dr.Elamaran
 Address of Applicant :Professor and Head Department of Veterinary Pharmacology . and Toxicology Veterinary College and Research Institute Orathanadu, Thanjavur,Tamil Nadu India Pin code 614625 -----
6)Dr. M. J. RaJa
 Address of Applicant :Professor and Head Department of Veterinary Pharmacology . and Toxicology Veterinary College and Research Institute Orathanadu, Thanjavur,Tamil Nadu India Pin code 614625 -----

(57) Abstract :

The present invention introduces a novel polyherbal gel composed of *Centella asiatica*, *Curcuma longa*, *Azadirachta indica*, *Ocimum tenuiflorum* and *Glycyrrhiza glabra* combined with specific excipients. Shade-dried and ground herbal components undergo soxhlet extraction to maximize yield and prevent fine powder formation. The resulting extract, free from residual solvent, is further processed using a rotary film evaporator and stored at 4°C. The formulation process for 100 grams of polyherbal gel involves sequential steps: preparation of gelling polymers (Carbopol 934 and HPMC), homogenization, herbal ingredient extraction, extract mixture preparation, preservative dissolution, and incorporation into gelling polymers, homogenization, pH adjustment, and final gel formation. Key ingredients include Carbopol 934, HPMC, propylene glycol-400, ethanol, methyl paraben, sodium benzoate, triethanolamine, and water, meticulously combined to achieve a homogeneous, bubble-free gel within the targeted pH range (6.8-7.2). This innovative formulation holds potential for diverse topical applications in healthcare. Table 1

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008230 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : COMPUTER KEYBOARD DUST CLEARING DEVICE WITH VACUUM DUST ABSORPTION

(51) International classification :B08B0001040000, G06F0003020000, B08B0005040000, B08B0001000000, B08B0005020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION

Address of Applicant :KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, ANAND NAGAR, KRISHNANKOIL, SRIVILLIPUTTUR (VIA) VIRUDUNAGAR (DT), TAMILNADU, INDIA, PIN-626126 -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.S. SHASI ANAND

Address of Applicant :KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, ANAND NAGAR, KRISHNANKOIL, SRIVILLIPUTTUR (VIA) VIRUDUNAGAR (DT), TAMILNADU, INDIA, PIN-626126 -----

2)Dr.P. JAYAKUMAR

Address of Applicant :KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION Anand Nagar, krishnankoil, srivilliputtur(via), virudunagar District-626126, Tamilnadu, India -

(57) Abstract :

The invention titled Computer keyboard dust cleaning device with vacuum dust absorption'discloses with a device for cleaning computer keyboard. Dust, food, liquid, and other particles can get stuck underneath the keys on your keyboard, which can prevent it from working properly. In this invention, two rollers with bristle; (7)(5) and one vacuum dust absorber (6) have been used. Initially, place the computer keyboard on the conveyor roller (4). Then manually insert the computer keyboard inside the keyboard dust cleaning device. First it passes through a roller with bristles (7) which helps to clean the corners and edges of the keys in computer keyboard. But still some dust particles may stock inside the corners and edges. So to clean it even deeper it passes through a vacuum dust absorber (6) which sucks out the air and clean the dust inside the corners and edges of the keyboard keys. Finally, it again passes through a roller with bristles (5) to clean the dust to make it even cleaner. Both the rollers with bristles (7)(5) were connected with roller driven drive motor (2) and vacuum dust absorber (6) is connected with vacuum pump to blow out the air. A clean computer is important for the health and well-being.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008263 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : QUANTUM PARALLELISM FOR REAL-TIME ROUTE OPTIMIZATION IN SUPPLY CHAINS

(51) International classification :G06N0010000000, G06Q0010080000, G01C0021340000, G06Q0010040000, G06N0003120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)PANIMALAR ENGINEERING COLLEGE
 Address of Applicant :BANGALORE TRUNK ROAD CHENNAI - 600 123. TAMIL NADU, INDIA -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)L. JABASHEELA
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU, INDIA -----
2)K. VALARMATHI
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU,INDIA -----
3)M. RAJENDIRAN
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU, INDIA -----
4)M.S. VINMATHI
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU, INDIA -----

(57) Abstract :

This study addresses the formulation and solution of a particular problem using quantum computing in response to the growing complexity of optimization challenges in supply chain management and logistics. The Vehicle Routing Problem with Time Windows (VRPTW), a well-known optimization problem, is the main focus of the project. It is essential for figuring out effective delivery vehicle routes that adhere to time constraints. Even though they work well, traditional computing techniques can't handle the complexity of large-scale VRPTW instances. In order to address the VRPTW, this work presents a novel quantum computing strategy that takes advantage of the inherent parallelism of quantum systems to investigate several possible solutions at once. The logistics and supply chain sector is constantly confronted with the difficult task of maximizing delivery vehicle route, which is essential to guaranteeing efficient and timely goods transportation. Because of its combinatorial nature, the Vehicle Routing Problem with Time Windows presents a challenging computational task that calls for creative solutions outside of traditional computing paradigms. With its extraordinary capacity to process large numbers of possibilities at once, quantum computing shows promise for resolving these issues and transforming logistics route optimization] The heuristics and metaheuristics used in current VRPTW methods are examples of classical algorithms, which may not be able to produce optimal solutions for large-scale instances in a reasonable amount of time.Improved computing techniques are required as presents a novel approach to» optimization, with the potential to surpass classical methods in specific problem domains. The VRPTW problem is specifically addressed by the quantum algorithm that is developed and implemented'in the suggested quantum computing system. The algorithm utilizes quantum parallelism to investgate multiple routing solutions concurrently, with the goal of finding more optimal routes with notably shoner computation times than with classical methods. The sxstem is compatible with both currefit and future quantum hardware and makes use of a quantum programming framework. Promising results from initial experiments show that the quantum algorithm can solve large-scale VRPTW instances with significant reduction in computational time. Initial comparisons with traditional methods suggest that route optimization efficiency could be greatly increased. The experimental findings, which are displayed as a percentage of the computation time saved, highlight the potential of quantum computing as a game-changing approach to supply chain and logistics optimization. The present study adds to the current discussion about the potential uses of quantum computing in the real world to solve supply chain and logistics optimization problems. The results are intended to offer insightful information about how quantum systems can transform route optimization procedures.

No. of Pages : 13 No. of Claims : 10

(54) Title of the invention : ENHANCING EFFICIENCY THROUGH 5G NETWORK SLICING IN WIRELESS COMMUNICATION

<p>(51) International classification :H04W0048180000, H04W0024020000, H04L0005000000, G06Q0050060000, H04L0041089300</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)PANIMALAR ENGINEERING COLLEGE Address of Applicant :BANGALORE TRUNK ROAD, POONAMALLEE, CHENNAI-600123, TAMILNADU, INDIA ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR. D. ANURADHA Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD, POONAMALLEE, CHENNAI-600123, TAMILNADU, INDIA ----- 2)Dr.B.ANNI PRINCY Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU, INDIA ----- 3)Dr.J.SEETHA Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123, TAMIL NADU, INDIA ----- 4)K. KIRUTHIKA Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU, INDIA -----</p>
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(57) Abstract :

One of the most important ideas in wireless communication today is network slicing, especially in the context of 5G and its future development. By dividing a physical network infrastructure into several virtual networks, network slicing provides a novel solution to the varied and strict communication requirements of contemporary applications. Because each slice is customized to meet specific requirements, it is possible to allocate resources efficiently, perform optimally, and customize for a wide range of use cases, including large-scale Internet of Things deployments, Ultra-Reliable Low-Latency Communications (URLLC), and enhanced Mobile BroadBand Inventional communication networks frequently find it difficult to satisfy the unique requirements of a variety of applications, which results in inefficient use of resources and less than ideal user experiences of the (Ether hand, 50 network slicing overcomes these difficulties by establishing separate virtual networks that are amenable to separate optimization. This improves the flexibility and responsiveness of the network as a whole by enabling the coexistence of services with same physical infrastructure. We have taken advantage of 5G network slicing capabilities in our proposed system to improve wireless communication's overall performance and versatility. By carefully coordinating and allocating our resources, we have shown notable gains in important performance indicators. Our initial simulation results demonstrate a significant percentage gain in spectral efficiency, opening the door to higher data rates and enhanced network dependability. Furthermore, the network slicing strategy has proven to be scalable and responsive in real-world situations by dynamically adapting to shifting traffic patterns and service demands. Our implementation has demonstrated a commendable percentage improvement in overall network efficiency through extensive testing and simulations; gains in latency—sensitive applications and resource-intensive services have been particularly noticeable. The outcomes highlight the effectiveness of network slicing as a paradigm-shifting technique in wireless communication, opening the door for a networking infrastructure that is more flexible, agile, and application-focused. Looking ahead, we can see that the development of network slicing will be crucial in forming the next wave of wireless networks, which will support a wider range of communication needs.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008271 A

(19) INDIA

(22) Date of filing of Application :07/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DYNAMIC ADAPTIVE PROCESSING SYSTEM FRO ENERGY-EFFICIENT CLOUD COMPUTING

(51) International classification :G06F0009500000, G06F0011300000, H04Q0009000000, G06N0020000000, H04L0069120000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)PANIMALAR ENGINEERING COLLEGE
 Address of Applicant :BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU.INDIA -----
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)DR. D. ANURADHA
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU.INDIA -----
2)Dr.B.ANNI PRINCY
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU.INDIA -----
3)Dr.J.SEETHA
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU.INDIA -----
4)K. KIRUTHIKA
 Address of Applicant :PANIMALAR ENGINEERING COLLEGE, BANGALORE TRUNK ROAD CHENNAI -600 123. TAMIL NADU.INDIA -----

(57) Abstract :

In response to the escalating concerns about the environmental impact and energy consumption of traditional cloud computing systems, this invention introduces a Dynamic Adaptive Processing System designed to optimize energy efficiency in real-time. Motivated by the inadequacies of static resource allocation models, the proposed system dynamically adjusts processing resources and configurations based on continuous monitoring of workload characteristics, user demands, and environmental factors. Introducing hardware-accelerated machine learning algorithms for workload analysis, the system utilizes specialized processing units to perform real-time; analytics. Environmental sensors, integrated with power management modules, facilitate dynamic adjustments based on ambient conditions, such as temperature and humidity. The dynamic resource allocation engine, implemented through FPGA (Field-Programmable Gate Array) technology, enables swift reconfiguration of processing units, memory, and network bandwidth. Comparative evaluations against existing static allocation models demonstrate a significant reduction in energy consumption while maintaining optimal system performance. This novel approach not only addresses the current sustainability:challenges butial so sets conscious computing paradigm with tangible hardware implementations.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008495 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : TETRA SCREW-ON FAUCET AERATOR DESIGNED FOR OLD WATER TAPS

(51) International classification :A01K0063040000, C02F0003200000, C02F0003120000, E03C0001084000, E03C0001086000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)NMAM INSTITUTE OF TECHNOLOGY (NITTE DEEMED TO BE UNIVERSITY)

Address of Applicant :SH1, NITTE, UDUPI DISTRICT, KARNATAKA-574110. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHETTY SHANMUKHA

Address of Applicant :Assistant Professor, Dept. Civil Engineering, NMAMIT, Nitte-574110. -----

2)SHETTY THUSHAR S

Address of Applicant :Assistant Professor, Dept. Civil Engineering, NMAMIT, Nitte-574110. -----

3)KARANTH PRADEEP

Address of Applicant :Assistant Professor, Dept. Civil Engineering, NMAMIT, Nitte-574110. -----

4)SHODHAN S MOOLYA

Address of Applicant :Student Civil Engineering, NMAMIT, Nitte-574110. -----

(57) Abstract :

In old water taps there was no provision made for aeration of water. Drinking water required to be aerated to reduce wastage of water and increase its DO. The aerator unit available in the market is expensive and there is no provision made in the old taps for fitting it into it. This invention focuses on development of an aerator unit which is inexpensive and easy to fit onto the old taps The unit has regular aeration, but the method of fitting it and to prevent leakage of water are the inventive steps of the invention. The tetra screw-on faucet has a main body which directs the water flow and keeps the gasket 003 in the position it has provision 001 in it to insert tetra screws 004 to fasten the faucet unit.

No. of Pages : 5 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008502 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROCESS OF PREPARATION OF FREEZE DRIED 100% CHEMICAL FREE, FREE FLOW, CLOG FREE, MINERAL-RICH NATURA

(51) International classification :A61K0009160000, C10L0001220000, A23L0002390000, C13B0050000000, A23B0007024000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH
Address of Applicant :The Director, ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)HARI.K
Address of Applicant :ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----
2)SURESHA.G.S
Address of Applicant :ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----
3)SIVARAMAN.K
Address of Applicant :ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----
4)SIVARAJ.P
Address of Applicant :ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----
5)MURALI.P
Address of Applicant :ICAR- Sugarcane Breeding Institute, Coimbatore-6410077. -----

(57) Abstract :

Process of preparation of freeze dried 100% Chemical free, free flow, clog free, mineral-rich natural sugarcane granules that can dilute immediately to sugarcane Juice and uses there off relates to freeze dried sugarcane juice granules and the process of producing the same. The invention describes the process of preparation of freeze dried sugarcane juice granules containing above 95-98% dried sugarcane juice by weight, a moisture content of 1.0 to 3% by weight, anti-browning agents such as ascorbic acid E300 or citric acid E330 in the range of 0.01 to 0.5% by weight, with or without stabilizers such as gum arabica or maltodextrin or xanthan gum or soluble starch in the range of 0.01 to 0.5% by weight and the process preparing the same using vacuum shelf/tray drier. The invention also involves optimization of processing parameters such as freezing temperature of -30 °C to -80 °C, percent juice volume in the range of 25- 30% of shelf/tray volume and vacuum pressure of 0.5 -1.0 mbar. The invention also involves conversion of hygroscopic flaky product into less hygroscopic free flowing granules by the process of dry extrusion and spheronization

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008577 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SMART ASSIST FOR SPECIALLY CHALLENGED PEOPLE USING YOLO ALGORITHM

(51) International classification :A61M001600000, G06F0011360000, G06Q0050120000, A63F0013790000, B29K0067000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR.R JAMUNA
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----
2)AADHANA NEYA V
3)SRIMATHI MEENAL KV
4)SIBISHREE M
5)SHREEN TAJ N
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR.R JAMUNA
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----
2)AADHANA NEYA V
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----
3)SRIMATHI MEENAL KV
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----
4)SIBISHREE M
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----
5)SHREEN TAJ N
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----

(57) Abstract :
 A Clever Supportive System for Specially Abled Individuals is akin to possessing an intelligent aide leveraging technology to simplify the lives of those with particular requirements. It encompasses items such as gizmos and detectors that are operable through voice commands or applications customized to specific needs. This system is crafted to offer additional assistance and elevate the everyday experiences of individuals confronting distinct challenges.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008578 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : LORA&NBSP;BASED HEALTH MONITORING OVERCOAT FOR COAL MINE LABOURS

(51) International classification :H04W0004900000, G16H0040670000, A61B0005000000, G08C0017020000, E21F0017180000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Dr.R.Ranjith Kumar
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

2)S.Aishvarya
3)S.Bhavadharini
4)M.Matcheswari
5)V. Meenakshi
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr.R.Ranjith Kumar
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

2)S.Aishvarya
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU-641062, INDIA -----

3)S.Bhavadharini
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU-641062, INDIA -----

4)M.Matcheswari
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU-641062, INDIA -----

5)V. Meenakshi
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE, TAMILNADU-641062, INDIA -----

(57) Abstract :
 The Coal Mine Labours Monitoring System using Long-Range (LoRa) communication is a groundbreaking project designed to revolutionize safety and efficiency in the coal mining industry. With the primary aim of safeguarding the well-being of coal mine workers, especially in challenging underground conditions, this system integrates advanced sensors, including temperature and MQ135 gas sensors, within wearable suits. These sensors continuously monitor the environment, ensuring that employees are protected from extreme temperatures and potential gas hazards. The data collected by the sensors and emergency alerts are transmitted wirelessly LoRa technology, even in the toughest underground conditions, providing real-time monitoring on the surface and enabling rapid responses to emergencies. It also gives an emergency message to the mobile phones without internet using lora communication. Ultimately, this project offers a comprehensive solution that significantly reduces risks, enhances worker safety, improves operational efficiency, and contributes to a more sustainable coal mining industry.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008582 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A COST EFFECTIVE MISFUELLING PREVENTION SYSTEM FOR AUTOMOBILES

(51) International classification :B60K0015040000, B67D0007340000, B60K0015030000, G06Q0030060000, B60K0015050000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Dr.R.KANNIGA DEVI

Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI, TAMILNADU-600127, INDIA -----

2)Dr. M. MUTHUKANNAN

3)Dr. M. MURALI

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr.R.KANNIGA DEVI

Address of Applicant :ASSOCIATE PROFESSOR, SCHOOL OF COMPUTER SCIENCE AND ENGINEERING, VELLORE INSTITUTE OF TECHNOLOGY, CHENNAI, TAMILNADU-600127, INDIA -----

2)Dr. M. MUTHUKANNAN

Address of Applicant :Professor, Department of Civil Engineering, KCG College of Technology, Chennai-600097, Tamilnadu, India -----

3)Dr. M. MURALI

Address of Applicant :Project Coordinator, Kalasalingam Academy of Research and Education, Srivilliputhur-626126, Tamilnadu, India -----

(57) Abstract :

The Misfuelling Prevention System for Automobiles is designed for fuel filling stations to fill proper and required fuels to automobiles. The QR code sticker is fixed at the automobile fuel tank cover, which contains the information of corresponding fuel data like petrol or diesel fuel for automobile. A QR code scanner is fixed on the both sides of fuel gun to scan the QR code which is available in the automobile fuel. tank lids which-scans the essential fuel to the vehicle. The scanned signals are processed by the controller available in the fuel pump, the controller processes the acquired signals, and if the scanned signals are matched with the available fuel data, the controller will release the fuel for vehicle or it will abort the fuel filling.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008586 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SMART APPROACH TO FOOD GRAIN WAREHOUSE MONITORING USING IOT AND MACHINE LEARNING

(51) International classification :G06F0021620000, G06F0021600000, G06N0020000000, G06F0009480000, G06Q0050020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Mahima Mohan
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMIL NADU, INDIA. -----

2)Aakaash Charles F J
3)Bhuvaneshwaran K
4)Dhayananth M
5)Gokul Raj P
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Mahima Mohan
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMIL NADU, INDIA. -----

2)Aakaash Charles F J
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----

3)Bhuvaneshwaran K
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----

4)Dhayananth M
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----

5)Gokul Raj P
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE,TAMILNADU-641062, INDIA -----

(57) Abstract :
 This invention presents a groundbreaking solution for advancing food security in developing nations, with a particular focus on agricultural storage in regions like India. The innovative system incorporates an Internet of Things (IoT)-enabled monitoring infrastructure in remote, restricted-access locations. Key variables such as grain level, temperature, humidity, light, CO2, motion, and smoke are tracked and controlled in real-time to minimize food losses and optimize grain storage. Utilizing Tiny Machine Learning (TinyML), the system achieves intelligent decision-making at the edge, eliminating the need for extensive reliance on cloud services. This not only enhances data privacy but also ensures efficient and responsive control actions. The novel integration of edge computing addresses drawbacks associated with traditional cloud systems, promoting enhanced efficiency, reduced latency, and improved energy utilization. The invention's predictive modeling capabilities enable the 'detection of abnormal conditions, triggering proactive control mechanisms. This includes addressing environmental factors and mitigating issues such as rodent and insect activities within the warehouse. Real-time notifications promptly inform warehouse owners or managers about control actions, facilitating timely intervention. Furthermore, the system incorporates periodic program updates via alerts, ensuring continuous adaptation to evolving conditions and advancements in technology. Through these innovations, the invention significantly contributes to improved food security, efficient grain storage management, enhanced privacy, and the overall resilience of agricultural storage systems in developing nations'

No. of Pages : 7 No. of Claims : 5

(54) Title of the invention : MICROSPORE-STRUCTURED RELICA MEDIATED SILICONE POLYMERS FOR BIOFILM ADHESION STUDIES

(51) International classification :G03F0007000000, B82Y0040000000, B29K0083000000, B82Y0010000000, C12M0001320000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
 Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600 119 -----

Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Dr. D. Inbakandan
 Address of Applicant :Head, Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India—600 119 -----

2)B. Sheela Rani
 Address of Applicant :Director (Research), Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

3)Clarita Clements
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600 119 -----

4)T. Naren Kumar
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai,Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600 119. -----

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(57) Abstract :
 Microspore-structured replica mediated silicone polymers for Biofilm adhesion studies This research delves into the innovative application of soft lithography techniques for patterning Gore-Tex-modified Polydimethylsiloxane (PDMS) and Polyurethane surfaces, unlocking a new realm for biofilm adhesion studies. Soft lithography enables the creation of micro and nanostructured surfaces, offering a tailored platform to investigate the intricate dynamics of microbial adhesion. Gore-Tex is renowned for its hydrophobic characteristics and is strategically employed to modify PDMS and Polyurethane, introducing certain surface properties. The biocompatible nature of PDMS and Polyurethane, coupled with their transparency and versatility, facilitates real-time observation and quantitative analysis of biofilm formation. This interdisciplinary approach intersects with materials science, microfabrication, and microbiology providing insights into biofilm adhesion dynamics in environments and industrial scenarios.

No. of Pages : 12 No. of Claims : 6

(54) Title of the invention : FORMULATING PHAGE INCORPORATED POLYMERIC SURFACES WITH MARINE ANTIBIOFILM PROPERTIES

(51) International classification :C12N0007000000, C09D0005160000, G01N0017000000, A61K0035760000, A01N0059000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)Sathyabama institute of science and technology
 Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600 119 -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Dr. D.Inbakandan
 Address of Applicant :Head, Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

2)Dr. B. Sheela Rani
 Address of Applicant :Director (Research), Qathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600 119. -----

3)S. Lakshminarayanan
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119. -----

4)C. Anu
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India - 600119. -----

5)V. Jeevitha
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai; Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600119 -----

(57) Abstract :
 Marine biofouling, characterized by the formation of persistent biofilms on submerged surfaces, poses significant challenges to various industries. This research focuses on an innovative approach to tackle biofouling by formulating polymeric surfaces incorporated with bacteriophages, aiming to prevent and mitigate biofilm formation in marine environments. Bacteriophages, viruses that specifically target bacteria, offer a unique and targeted antibacterial solution. The study explores the development of phage-incorporated polymeric surfaces through a carefully designed Formulation process. Bacteriophages, selected based on their effectiveness against marine bacteria, are integrated into the polymer matrix to create a multifunctional material. The research investigates the impact of phage concentration, polymer composition, and surface topography on the antibiofilm properties of the resulting surfaces. The antibiofilm efficacy of the phage-incorporated polymeric surfaces is evaluated through comprehensive laboratory experiments and real-world marine exposure tests. Special emphasis is placed on the specificity of phages to target harmful bacteria while preserving the natural microbial balance in the marine environment. The durability and long-term stability ' of the polymeric surfaces are also examined to ensure sustained antibiofilm performance. Results from this research showcase the successful development of phage-incorporated polymeric surfaces with enhanced marine antibiofilm properties compared to traditional coatings. The specificity and selectivity of bacteriophages contribute to a targeted and environmentally friendly approach to biofilm prevention. The findings of this study hold significant promise for applications in the maritime industry, offering a sustainable solution to mitigate biofouling-related challenges. This research not only advances the understanding of phage-based antibiofilm strategies but also contributes to the development of innovative materials for biofouling control, addressing both environmental concerns and the need for effective marine surface protection.

No. of Pages : 12 No. of Claims : 5

(54) Title of the invention : INTEROPERATIVE BIOPSY SITE RELOCALIZATION IN ENDOSCOPE FOR GASTRO INTESTINAL TRACT USING DLT

<p>(51) International classification :G06N0003040000, G06N0003080000, G06K0009620000, G06T0007000000, A61P0001040000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Ramco Institute of Technology Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. Telephone No:04563-233414 ritipr@ritrjpm.ac.in -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)R.Ramalakshmi Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. -----</p> <p>2)Dr.C.Arunachalaperumal Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. -----</p> <p>3)G.Gnana Priya Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. -----</p> <p>4)V.SrirengaNachiyar Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. -----</p> <p>5)SJeeva Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, KRISHNAPURAM PANCHAYAT, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM-626117. -----</p>
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(57) Abstract :
 An endoscope, a flexible fiberoptic tube with a video camera at the end, is inserted in the tract and provides images of areas affected by problems such as ulcers, abnormal growths, and GI bleeding. Since some of the more serious conditions originate in the small intestine, this organ is a frequent imaging target during the diagnosis process. All images are enhanced, and the noise is removed before they are inputted into the deep learning networks. Kvasir dataset contains 200 images divided equally into five types of lower gastrointestinal diseases(dyed-lifted polyps, normal cecum, normal pylorus, polyps, and ulcerative colitis). In the classification stage, pretrained Convolutional Neural Network (CNN) models are tuned by transferring learning to perform new tasks. SoftMax activation function receives the deep feature vector and classifies the input images into five classes. All CNN models achieved superior results.The datas are stored through the IoT webpage and sent through the SMS.

No. of Pages : 13 No. of Claims : 5

(54) Title of the invention : METHOD OF FORMULATING NANO-BASED PAINT WITH ANTIFOULING PROPERTIES

(51) International classification :C09D0005160000, B63B0059040000, B01D0065080000, C09D0007400000, B63B0059080000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
 Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600 119 -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. D.Inbakandan
 Address of Applicant :Head, Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India —600 119. ----

2)Dr. B. Sheela Rani
 Address of Applicant :Director (Research), Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India — 600 119. -----

3)T. Naren Kumar
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India —600 119 -----

4)C. Anu
 Address of Applicant :Centre for Ocean Research, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, , Jeppiaar,Nagar, Chennai,Tamil Nadu, India —600 119 -----

(57) Abstract :
 Marine fouling, characterized by the accumulation of unwanted organisms poses significant on ship hulls, challenges to the maritime industry, leading to increased fuel consumption and maintenance costs. In response to this issue, a novel method for formulating nano-based paint with advance antifouling properties has been developed. This patent focuses on enhancing the efficacy of antifouling coatings through the incorporation of nanoparticles in different concentration within a paint matrix, optimizing their composition and concentration for good antifouling performance. The study investigates the influcncc of nanoparticles such as metal oxides on the prevention of biofouling. Additionally, the research explores the impact of these nanomaterials on paint durability, adhesion, and overall coating integrity in harsh marine environments. Experimental results demonstrate the successful development of a nano-based paint exhibiting enhanced antifouling properties compared to traditional coatings. The formulated paint effectively inhibits the adhesion and growth of marine organisms, providing a durable and long-lasting solution for biofouling prevention. The antifouling efficacy is evaluated through comprehensive laboratory tests and real-world field trials. The proposed nano-based paint formulation method presents a promising avenue for the maritime industry to reduce fuel consumption, lower maintenance costs, and adhere to evolving environmental standards.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008755 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOCATING INDOORS WITH WIFI: AN ANALYSIS OF POSITIONING SYSTEM

(51) International classification :H04W0004020000, G01C0021200000, G01S0005020000, H04W0064000000, H04W0004021000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)RAGHAVENDRA R
 Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be university), Bangalore, karnataka India. pin code:560069.

2)DHANUSH N.
3)NIKITHA V
4)VARSHA DEWANGAN
5)ANUDEEP K V
6)NANDHIKA SRI P
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)RAGHAVENDRA R
 Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be university), Bangalore, karnataka India. pin code:560069.

2)DHANUSH N.
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code: 560069 -----

3)NIKITHA V
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code: 560069 -----

4)VARSHA DEWANGAN
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code: 560069 -----

5)ANUDEEP K V
 Address of Applicant :PG Student / MMS-HCM , Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code: 560069 -----

6)NANDHIKA SRI P
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code: 560069 -----

(57) Abstract :
 An Indoor Positioning System (IPS) utilizing WiFi IP addresses is a cutting- 'edge technology designed to accurately locate users within buildings by analyzing the unique. IP address of their connected devices as they interact with various WiFi access points. This system relies on triangulating the user's position based on signal strength measurements at different access points, enabling precise indoor navigation, asset tracking, and facilitating location-based marketing. The distinct advantage of this technology lies in its ability to operate effectively in indoor environments or areas with poor GPS signal reception, making it a versatile solution for various applications. While the WiFi positioning system offers notable advantages, including costeffectiveness and installation simplicity compared to conventional OPS-based systems, it is not without limitations The accuracy of location data heavily depends on the density and signal strength of accessible access points, posing challenges in environments with interference or weak WiFi signals. Despite these drawbacks, the continuous evolution of technology and data analysis methods holds the promise of further enhancing the accuracy and utility of WiFi-based indoor positionihg systems. As a result, this technology is poised to deliver significant benefits across diverse fields and use cases, with ongoing advancements expected to refine its capabilities over time.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008757 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : KOLLECTOR: E-WASTE MANAGEMENT SYSTEM

(51) International classification :C22B0007000000, G06Q0010100000, G06Q0010060000, G06Q0050260000, C22B0003020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. KAMALRAJ R
 Address of Applicant :Professor / School of CS and IT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code- 560069 -----

2)ABHISHEK KUMAR
3)BHAVANA PG
4)BJ PRERANA
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. KAMALRAJ R
 Address of Applicant :Professor / School of CS and IT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code- 560069 -----

2)ABHISHEK KUMAR
 Address of Applicant :PG Student/ MCA, Jain (Deemed-to-be Street University),Bangalore,Karnataka India. 560069 -----

3)BHAVANA PG
 Address of Applicant :PG Student / MCA, Jain (Deemed-to-be Unnversuty), Bangalore, Karnataka,India.Pin code - 560069 -----

4)BJ PRERANA
 Address of Applicant :PG Student / M.Com, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code- 560069. -----

(57) Abstract :

Electronic waste (e-waste) is a rapidly growing problem in India, with the 'country generating over two million tons of e—waste every year. The improper disposal of e-Waste poses significant environmental and health risks. In ‘his rpport, we explore the cufient scenario of e-waste managemem in India, including the legal framework, collection and recycling methods, and government and non-governmental initiatives. We also highlight the challenges associated with e-waste management and suggest solutions to address these challenges. This report aims to raise awareness about the importance of proper e—waste management in India and promote sustainable practices for a cleaner and healthier future. With the rapidly increasing usage of electronic devices and the cohsequemial growth of e-waste, there is a pressing need for efficient and sustainable e-waste management practices. Developing a mobile application for e-waste management can ‘be a game-changer in promoting responsible and sustainable e-waste disposal and recycling. This application can offer a user-friendly interface that provides comprehensive information on e-waste disposal, récycling, and collection points. With features such as ngtifcations, reminders, and tracking, this application can help users wrcilijpose of their e-waste responsibly, find nearby collection points, and stamp to date on upcoming events: In addition, the application carn ehcofrage éléétronics manufacturers to implement Extended Producer Responsibility (EPR) policies, promoting sustainable product design and increasing recycling. Overall, a mobile application for e-waste management can help to reduce the negative environmental and 'health impacts of e-waste and foster a more sustainable future.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008758 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : ECHO AND BACKGROUND NOISE REMOVAL IN METAVERSE APPLICATION USING AI

<p>(51) International classification :H04M0009080000, G06N0003000000, G10L0021020800, G10L0021021600, H04L0025060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.T.Senthil Address of Applicant :Professor & Head, Department of ECE, AAA College of Engineering and Technology, Sivakasi - 626123 TAMIL NADU.INDIA -----</p> <p>2)N.Thenmozhi</p> <p>3)Dr.GJayahari Prabhu</p> <p>4)Dr.B.Padmanaban</p> <p>5)K.Padmapriya</p> <p>6)C.Shanmugaraja</p> <p>7)M.Arun Devi</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr.T.Senthil Address of Applicant :Professor & Head, Department of ECE, AAA College of Engineering and Technology, Sivakasi - 626123 TAMIL NADU.INDIA -----</p> <p>2)N.Thenmozhi Address of Applicant :Assistant Professor, Department of ECE, AAA College of Engineering and Technology. Sivakasi - 626123, TAMIL NADU, INDIA. -----</p> <p>3)Dr.GJayahari Prabhu Address of Applicant :Assistant Professor {Senior Grade}, Depanment of ECE, AAA College of Engineering and Technology, Sivakasi - 626123, TAMIL NADU, INDIA. -----</p> <p>4)Dr.B.Padmanaban Address of Applicant :Associate Professor, Department of ECE, AAA College of Engineering and Technology. Sivakasi - 626123, TAMIL NADU, INDIA. -----</p> <p>5)K.Padmapriya Address of Applicant :Assistant Professor, Department of ECE, AAA College of Engineering and Technology, Sivakasi - 626123, TAMIL NADU, INDIA. -----</p> <p>6)C.Shanmugaraja Address of Applicant :Assistant Professor, Department of ECE, AAA College of Engineering and Technology, Sivakasi- 626123, TAMIL NADU, INDIA. -----</p> <p>7)M.Arun Devi Address of Applicant :Assistant Professor, Department of ECE. AAA College of Engineering and Technology. Sivakasi - 626123, TAMIL NADU, INDIA. -----</p>
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(57) Abstract :

Echo and background noise removal in metaverse application users an efficient integrated acoustic echo and noise suppression algorithm by using the combined powering of acoustic echo and background noise within a soft decision framework. The combined power of the acoustic echo and noise is adopted to the integrated suppression algorithm based on soft decision to address the artifacts such as the nonlinear distortion and the disturbed noise introduced from the conventional methods. Specifically, in the unified frequency domain architecture, the aco'ustic echo and noise signal are efficiently able to be suppressed through the acoustic echo suppression algorithm based on soft decision without the help of the additional noise reduction technique

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008759 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DIGITIZING HANDWRITTEN PRESCRIPTIONS THROUGH OPTICAL CHARACTER RECOGNITION (OCR)

<p>(51) International classification :G06N0003080000, G06N0003040000, G06T0007730000, G16H0010600000, G16H0040670000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)RAGHAVENDRA.R Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be University)Bangalore,Karnataka, India. Pin code - 560069. ----- 2)M.DEVIKA 3)BAKARANIYA SHRUTI AMRUTBHAI 4)YASHASWINI URS 5)CHARBHUJA JAVERILAL PUNIYA 6)HEMASHREE.M.R 7)AMAL JAMES Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)RAGHAVENDRA.R Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be University)Bangalore,Karnataka, India. Pin code - 560069. ----- 2)M.DEVIKA Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India.Pin code - 560069 ----- 3)BAKARANIYA SHRUTI AMRUTBHAI Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India, Pin code 560069. ----- 4)YASHASWINI URS Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India, Pin code - 560069. ----- 5)CHARBHUJA JAVERILAL PUNIYA Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka, India. Pin code 560069. ----- 6)HEMASHREE.M.R Address of Applicant :PG Student / MMS-HCM, Jain (Deemed-to-be University), Bangalore,Karnataka,India.Pin code -560069. ----- 7)AMAL JAMES Address of Applicant :PG Student / M.Com-ACCA, Jain (Deemed-to-be University), Bangalore,Karnataka,India.Pin code -560069. -----</p>
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(57) Abstract :
This invention introduces a ground breaking solution for the digitization of handwritten prescriptions in the healthcare sector. Leveraging advanced Optical Character Recognition (OCR) technology, our system addresses the challenge associated with illegible prescriptions, language barriers, and manual processing. The system, implemented through a user-friendly Android app, not only converts images into understandable text but also integrates deep learning techniques for improved accuracy. This invention aims to enhance patient safety, streamline prescription processing, and facilitate effective communication between healthcare providers and patients.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008760 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : IOT BASED CHEWING GUM COLLECTOR MACHINE

(51) International classification :G06Q0030020000, H04W0004700000, A23G0004060000, A23G0004100000, B65F0001140000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)RAGHAVENDRA R
 Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be University),Bangalore, Karnataka, India, 560069. -----

2)KHUSH SHAH
3)AASTHA GUPTA
4)BRIJEN RAJAK
5)ANANYA BHAT.V
6)KISHORE G
7)BHAWANA GHALE
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)RAGHAVENDRA R
 Address of Applicant :Assistant Professor/ School of CS and IT, Jain (Deemed-to-be University),Bangalore, Karnataka, India, 560069. -----

2)KHUSH SHAH
 Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

3)AASTHA GUPTA
 Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

4)BRIJEN RAJAK
 Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

5)ANANYA BHAT.V
 Address of Applicant :PG Student/ MSc CSIT, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

6)KISHORE G
 Address of Applicant :PG'Student/ M.Com, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

7)BHAWANA GHALE
 Address of Applicant :PG St'udent/ MMS-HCM, Jain (Deemed-to-be University), Bangalore, Karnataka,India,pin code- 560069. -----

(57) Abstract :
 The emergence of the Internet of Things (IoT) is transforming the way we interact with the world and presents an opportunity to address some of the most pressing environmental challenges we face today. One such challenge is 'he increasing problem of discarded chewing gum litter, which not only causes a public nuisance but also poses a threat to the environment due to its non-biodegradable nature. This research paper proposes an IoT based chewing gum collector machine that can be installed in public spaces to collect and it is sent to factories that recycle chewing gum into useful materials. The system comprises of IOT devices such as Arduino UNO, IR sensor, servo motor and LED display to accomplish an automated chewing collector. In order to open the bin, the user will have to be near by the installed bin's location in which the user's app will have the open button enabled for that particular bin. By pressing the open ,button the bin will automatically open for 5 seconds and then automatically bin's lid will close. To motivate people to throw chewing gum into the bin, a loyalty point is given to the user which can be used to redeem discount coupons for buying a recycled products made from the chewing gum such as coffee mug, pencil, pen etc. '

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008761 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PREVENTION OF PHISHING ATTACK IN WEBSITE AUTHENTICATION USING LINKGUARD ALGORITHM

(51) International classification :G06F0021310000, G06Q0010100000, G06F0021360000, G06F0021120000, G06F0021550000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)HARIPRIYA.V
 Address of Applicant :Assistant Professor/School of CS and IT, Jain (Deemed-to-be University), Bangalore-560069. -----
2)JAHNAVI SHETTY
3)ARUNACHALAM .G
4)ANSAR DHEEN .N
5)MANIKANDAN .M
6)SHASHIKALA GHale
7)MOIDEEN MIDHLAJ
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)HARIPRIYA.V
 Address of Applicant :Assistant Professor/School of CS and IT, Jain (Deemed-to-be University), Bangalore-560069. -----
2)JAHNAVI SHETTY
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore-560069. -----
3)ARUNACHALAM .G
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore-560069. -----
4)ANSAR DHEEN .N
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore-560069. -----
5)MANIKANDAN .M
 Address of Applicant :PG Student / MSc CSIT, Jain (Deemed-to-be University), Bangalore-560069. -----
6)SHASHIKALA GHale
 Address of Applicant :PG Student / MMS-HCM, Jain (Deemed-to-be University), Bangalore-560069. -----
7)MOIDEEN MIDHLAJ
 Address of Applicant :PG Student / M.Com, Jain (Deemed-to-be University), Bangalore-560069. -----

(57) Abstract :

Every security-related programme used today involves a login and password based authentication method. Phishing is an attempt by a person or group to steal personal info alien from unwitting victims, such as passwords, 'credit card numbers, etc., in order to commit identity theft, financial gain, and other fraudulent actions. Provide a fresh strategy to address the phishing issue. By confirming the captcha image, the use registration and login process validates the authentication. The encrypted data used to store the registered information in the database. A new form of network assault called phishing tricks users into providing personal, financial, or password information to a website they believe to be that of their service provider by creating a copy of an already-existing web page. The Link Guard concept uses the common trails of hyperlinks used in phishing attempts to 'create an end-host based anti-phishing algorithm. The idea behind the link Guard algorithm is to identify phishing emails that have been sent by phishers in an effort to obtain the user's personal information. The foundation of Link Guard is a comprehensive examination of the traits of phishing URLs. The Link Guard algorithm is implemented for each end user. After this, the end user can identify phishing emails and refrain from replying to them. Link'Guard 'can identify' and stop both known and unidentified phishing attacks because it is based on characterisation the project uses MySQL as the backed and PHP as the front end.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008810 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN EXPERIMENTAL INVESTIGATION BASED ON SERVICES OF VIDEO STREAMING USING DEEP NEURAL NETWORK FOR CON

(51) International classification :G06N0003080000, G06N0003040000, G06Q0010040000, G06N0005020000, H01L0021768000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)S.A.Kalaiselvan
Address of Applicant :Professor,Department of computer science and engineering, Vel Tech multi tech Dr.Rangarajan Dr.sakunthala engineering college avadi chennai Tamilnadu-600062 India -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)S.A.Kalaiselvan
Address of Applicant :Professor,Department of computer science and engineering, Vel Tech multi tech Dr.Rangarajan Dr.sakunthala engineering college avadi chennai Tamilnadu-600062 India -----

2)SK. Mahaboob Basha
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana-500097, India -----

3)T.R.Mani Chigurupati
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, TKR College of Engineering and Technology, Meerpet, Telangana-500097, India -----

4)Dr.Vempati Krishna
Address of Applicant :Professor & Head, Department of Computer Science and Engineering (DS), TKR College of Engineering and Technology, Meerpet, Telangana-500097, India -----

5)Dr. Ch.V.Raghavendran
Address of Applicant :Professor, Department of Information Technology, Aditya College of Engineering & Technology, Surampalem, Andhra Pradesh-533291, India -----

6)Dr.Birru Devender
Address of Applicant :Associate Professor & Head, Department of Computer Science and Engineering (AIML), Keshav Memorial Engineering College, Hyderabad, Telangana-500088, India -----

(57) Abstract :

Now-a-days Global Internet traffic is created by video streaming which is a primary source of platform, this may create and contact with the worldwide audience. The user the contents high quality streaming to delivering a crucial role play with quality of experiences the continuous user predicting with video streaming services. By the temporal dependencies that can cause 'he complexity in data QoE and the factor influence QOE among non-linear relationship that can introduced challenge to prediction QoE continuous. To effectively capture Gated Recurrent Unit (GRU) that utilized the existing studies this can be deal, accuracy QoE prediction excellent resulting. Even-through, GRU complexity is high computational, architecture with characteristic processing sequential with it, power computational with limited devices it's performance about the serious question which has been raised. Meanwhile, Deep neural network with variation of Temporal convolutional network(TCN), for modelling task with sequences which has been proposed, computational complexity and accuracy prediction with terms GRU based on the method of baseline over the performances prediction supen-lisor has been provided. In this paper, based on thé model TCN with improved, namely DNN-QOE, the QoE proposed is predictive continuous, sequential data with characteristic pose, to overcome the complexity computation based on the advantage ofTCN leverage from drawback model ofGRU based QOE, to improve the accuracy ofthe QoE prediction they improved the architecture that has been introduced at the certain time. The performances of the DNN-QoE are highly competitive.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008823 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : BILAYER TABLET FORMULATION OF NSAID AND SERRATIOPEPTIDASE AND METHOD THEREOF

(51) International classification :A61P0029000000, A61K0009240000, A61K0009200000, A61P0009000000, A61P0025000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)DR.ANNAPURNA UPPALA

Address of Applicant :C/O UNIVERSITY COLLEGE OF PHARMACEUTICAL SCIENCES ACHARYA NAGARJUNA UNIVERSITY, NAGARJUNA NAGAR, GUNTUR, ANDHRA PRADESH-522510, INDIA -----

2)Dr.A.Prameela Ram

3)Dr.Sk.Mastanamma

4)Dr.Ch.Srujani

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DR.ANNAPURNA UPPALA

Address of Applicant :C/O UNIVERSITY COLLEGE OF PHARMACEUTICAL SCIENCES ACHARYA NAGARJUNA UNIVERSITY, NAGARJUNA NAGAR, GUNTUR, ANDHRA PRADESH-522510, INDIA -----

2)Dr.A.Prameela Ram

Address of Applicant :C/O UNIVERSITY COLLEGE OF PHARMACEUTICAL SCIENCES ACHARYA NAGARJUNA UNIVERSITY, NAGARJUNA NAGAR, GUNTUR, ANDHRA PRADESH-522510, INDIA -----

3)Dr.Sk.Mastanamma

Address of Applicant :C/O UNIVERSITY COLLEGE OF PHARMACEUTICAL SCIENCES ACHARYA NAGARJUNA UNIVERSITY, NAGARJUNA NAGAR, GUNTUR, ANDHRA PRADESH-522510, INDIA -----

4)Dr.Ch.Srujani

Address of Applicant :C/o Department of Pharmaceutical Sciences, BBAU, Vidya Vihar,Rae Bareli Road, Lucknow, Uttar Pradesh-226025, India -----

(57) Abstract :

The present invention relates to oral drug product meant for prolonged duration of action in the management of inflammatory disorders. Particularly the invention relates to bilayer tablet formulation comprising a low dose NSAID selected from Aceclofenac as fast release layer of the bilayer tablet and the controlled release layer consisting of a systemic enzyme, Serratiopeptidase with analgesic and afiti- 10 inflammatory activity. The invention also provides method of preparation of the bilayer tablet formulation of NSAID and Serratiopeptidase

No. of Pages : 28 No. of Claims : 5

(54) Title of the invention : SMART CITY INTEGRATION OF IOT AND CLOUD SOLUTIONS FOR TRANSPORTATION AND SERVICES

<p>(51) International classification :G06Q0050260000, G06Q0010060000, G06Q0050300000, H04L0067109500, C08L0007000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)G. NAVEEN Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Joginpally B R, Engineering, Joginpally B R Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>2)R. DURGAGOPAL 3)AMBATI RAJIAH 4)SHESAGIRI TAMINANA 5)B. SUMA 6)MADDU SRINIVASA RAO 7)Dr. B. ABDUL RAHEEM 8)MOTHI GOVINDU Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)G. NAVEEN Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Joginpally B R, Engineering, Joginpally B R Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>2)R. DURGAGOPAL Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>3)AMBATI RAJIAH Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>4)SHESAGIRI TAMINANA Address of Applicant :Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>5)B. SUMA Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>6)MADDU SRINIVASA RAO Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>7)Dr. B. ABDUL RAHEEM Address of Applicant :Professor and Head, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p> <p>8)MOTHI GOVINDU Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Joginpally BR Engineering College, Survey No. 156 To 162, Yenkapally village, Moinabad Mandal, Hyderabad, Telangana-500 075, India -----</p>
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(57) Abstract : Intelligent and sustainable solutions In smart cities are becoming more and more important as , urbanization increases. It looks at how two important parts of city life transportation and citizen services can be improved by combining [OT and cloud computing. The IoT and cloud computing provide the groundwork for an interconnected and productive urban environment. In the transportation industry, this cooperation allows. for optimized traffic management; ' data- driven decision-making, and real- time monitoring An efficient and _tailored transport system that responds to the requirements of its users helps alleviate traffic and lessens the . system' 3 negative effect on the environment. The integration promotes an approachable and -responsive atmosphere by expanding its ,influence on citizen services: An adaptive and Irresponsive network is beneficial to people in many ways, including smart infrastructure and' personalized services. The varied demands of urban populations, services must be reliable= and the cloud provides via its scalability and data security. Potential governmental responses and the societal and economic effects'of creating smart, connected cities are all part of the objectives.

No. of Pages : 15 No. of Claims : 6

(54) Title of the invention : DIGITAL TWIN BASED REAL-TIME VISION SYSTEM FOR INDUSTRIAL MACHINE MONITORING SYSTEM

(51) International classification :G06Q0010060000, G05B0023020000, H04L0067120000, G06N0020000000, G06Q0030020000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)DR.REMYA.K.R
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

2)Kavin.P
3)Sanjay.T
4)Vigneshwaran.A
5)Yallaroo Battula
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)DR.REMYA.K.R
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

2)Kavin.P
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

3)Sanjay.T
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

4)Vigneshwaran.A
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

5)Yallaroo Battula
 Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, L&T BYPASS ROAD, COIMBATORE-641062, TAMILNADU, INDIA -----

(57) Abstract :
 The system integrating digital twin technology and real-time vision systems for advanced industrial machine monitoring. The innovative approach involves a dynamic calibration method, continually refining the accuracy of the digital twin using real-time data from the vision system. An adaptive anomaly detection algorithm enhances precision by adjusting to evolving machine behavior. The system optimizes resource allocation in real-time, maximizing operational efficiency. Continuous machine learning integration improves predictive capabilities, while fault isolation and root cause analysis contribute to efficient maintenance. The scalable architecture accommodates diverse industrial networks, and robust cyber security measures ensure data integrity. The human-machine collaboration interface facilitates user-friendly monitoring, and predictive maintenance scheduling minimizes downtime. With seamless integration of IoT devices, this system represents a comprehensive solution for intelligent and proactive industrial machine management.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202441008877 A

(19) INDIA

(22) Date of filing of Application :09/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC CAN WATER DISPENSER WITH SELF BALANCING MECHANISM

<p>(51) International classification :B67D0001000000, B67D0001080000, A47J0031460000, B67D0003000000, F25D0023120000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)DR.B. SIVASANKARI Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 2)DR. R. KANMANI 3)V. PRABHU 4)DR.K.THILAGAVATHI 5)DR.M.NIRMALA 6)M. UMA MAHESWARI 7)A. SAKIRA PARVEEN Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)DR.B. SIVASANKARI Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 2)DR. R. KANMANI Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 3)V. PRABHU Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 4)DR.K.THILAGAVATHI Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 5)DR.M.NIRMALA Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 6)M. UMA MAHESWARI Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA ----- 7)A. SAKIRA PARVEEN Address of Applicant :DEPARTMENT OF ECE,SNS COLLEGE OF TECHNOLOGY, SNS KALVI NAGAR, COIMBATORE, TAMILNADU-641035, INDIA -----</p>
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(57) Abstract :

An automatic can water dispenser is provided herein. The water dispenser includes: a water entrance connectable to water can; a water dispensing nozzle; electrically controlled pump for responsible for water circulation within the dispenser; a cup/bottle holder; a self balancing mechanism and a switch positioned at the bottle holder to actuate the water dispensing.

No. of Pages : 6 No. of Claims : 9

(54) Title of the invention : A HYBRID RENEWABLE ENERGY DRIVEN BIDIRECTIONAL WIRELESS CHARGING SYSTEM FOR DYNAMIC AND STATIC ELECTRIC VEHICLE

<p>(51) International classification :H02J0007020000, H02J0050120000, B60L0053120000, H02J0007000000, H02J0050100000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD Address of Applicant :Dhanbad -826004, Jharkhand, India Dhanbad -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Pradip Kumar Sadhu Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>2)Anik Goswami Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>3)Sonal Mishra Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>4)Nitai Pal Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>5)Arijit Baral Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>6)Anirban Ghoshal Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p> <p>7)Kartick Chandra Jana Address of Applicant :Department of Electrical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad -826004, Jharkhand, India DHANBAD -----</p>
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(57) Abstract :

The present invention relates to a hybrid renewable energy driven bidirectional wireless charging system (100) for dynamic and static electric vehicle (1). The proposed charging system (100) comprises a plurality of transmitting coil systems (3) mounted into a road lane (4) concrete at a regular interval in a segment of 1-10 km on which the electric vehicle (1) is in motion and a receiving coil system (2) mounted underneath the electric vehicle (1). The bidirectional wireless power transfer (WPT) compatible charging system (100) can transfer power from the renewable energy source (RES) (8) and the grid source (7), in absence of the RES (8), to the battery unit (5) of the vehicle (1) and the excess power therefrom when the battery unit (5) is fully charged. The segmental WPT road ensures to take decision by monitoring the irradiance level whether the power transfer is taking place in grid power-to-vehicle or vehicle-to-grid power mode. The charging system (100) enables charging electric vehicle (1) irrespective of their size and shape by the horizontal arrangement of number of receiving coil systems (2) and by the vertical arrangement of number of repeater coils (9) on vehicle side.

No. of Pages : 25 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331038732 A

(19) INDIA

(22) Date of filing of Application :06/06/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEPLOYABLE ROLLOVER PROTECTIVE STRUCTURE FOR AGRICULTURAL WHEELED TRACTORS

(51) International classification :B60R21/13,
B62D49/08
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

Address of Applicant :Kharagpur 721302, Paschim Midinipur,
State of West Bengal, India Kharagpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SHRIVASTAVA, Ashish Kumar

Address of Applicant :Farm Machinery and Power, Agriculture
and Food Engineering Department, Indian Institute of Technology
Kharagpur, Kharagpur 721302, Paschim Midinipur, State of West
Bengal, India Kharagpur -----

2)TEWARI, Virendra Kumar

Address of Applicant :Director, Indian Institute of Technology
Kharagpur, Kharagpur 721302, Paschim Midinipur, State of West
Bengal, India Kharagpur -----

(57) Abstract :

Disclosed herein a Deployable Rollover Protective Structures (DROPS) for a vehicle having an open top seating area, preferably an agricultural tractor, comprising at least one protection structure connected to the vehicle for protecting an occupant of the vehicle during the vehicle rollover. The at least one protection member may include at least a pair of vertical circular side members and at least one horizontal circular member. Each of the at least a pair of vertical circular side members consist of a rigid lower portion mounted on axial housing of said vehicle fixed by means of a plurality of first fixtures and a displaceable telescopic upper portion, latter portion being slidably connected within the former by means of a plurality of second fixtures. Said at least one horizontal circular member slidably connected with displaceable telescopic upper portion of said at least a pair of vertical circular side members by means of a plurality of lashing mechanisms. FIG. 1

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331082161 A

(19) INDIA

(22) Date of filing of Application :02/12/2023

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND APPARATUS FOR MULTI-ACCESS UPLINK TRANSMISSION OF DIFFERENT WAVEFORMS

(51) International classification :H04B0007060000, H04L0005000000, H04L0027260000, H04L0025020000, H04L0001000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR
 Address of Applicant :Sponsored Research & Industrial Consultancy, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal India 721302 Kharagpur -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)REDDY, B. V. Sudhakar
 Address of Applicant :Research Scholar, G. S Sanyal School of Telecommunication, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal India 721302 Kharagpur -----

2)VELAMPALLI, Chaithanya
 Address of Applicant :Research Associate, G. S Sanyal School of Telecommunication, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal India 721302 Kharagpur -----

3)DAS, Dr. Suvra Sekhar
 Address of Applicant :Professor, G. S Sanyal School of Telecommunication, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal India 721302 Kharagpur -----

(57) Abstract :
 Provided is a muti-access method (500, 600) and a communication apparatus (102) for uplink transmission of different waveforms. The method (500) comprises receiving (502) an allocation of one or more indices for a respective users for uplink transmission of modulated symbols. The method further comprising transforming (504) the modulated symbols using a first matrix (P) for each index among the one or more indices. Furthermore, the method comprises generating (506) discrete-time signals by upsampling by a factor of plurality of indices by stuffing one or more zeroes, and circularly shifting the upsampled symbols. The method further comprising transmitting (508) uplink signals by combining the generated discrete-time signals of each user for the allocated one or more indices.

No. of Pages : 30 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431002351 A

(19) INDIA

(22) Date of filing of Application :12/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROCESS OF ELECTRIC ARC-BASED SMOOTHENING OF WIRE ARC ADDITIVE MANUFACTURED (WAAM) COMPONENTS

(51) International classification :B23K0009040000, B23K0009167000, B33Y0010000000, B23K0009320000, B23K0028020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD
 Address of Applicant :Dhanbad - 826004, Jharkhand, India
 Dhanbad -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Kumar Ujjwal
 Address of Applicant :Dept. of Mechanical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad – 826004, Jharkhand, India
 Dhanbad -----
2)Mukul Anand
 Address of Applicant :Dept. of Mechanical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad – 826004, Jharkhand, India
 Dhanbad -----
3)Robin Singh
 Address of Applicant :Dept. of Mechanical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad – 826004, Jharkhand, India
 Dhanbad -----
4)Alok Kumar Das
 Address of Applicant :Dept. of Mechanical Engineering, INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD, Dhanbad – 826004, Jharkhand, India
 Dhanbad -----

(57) Abstract :
 The present invention relates to a process of electric arc-based smoothening of wire arc additive manufactured (WAAM) components (4, 10). The gas tungsten arc welding machine (2) is interfaced with the robot to switch on and switch off the electric arc by instructing the robot (3). A wire arc additive manufactured component (4, 10) is placed onto the stage (5). The gas tungsten arc welding torch (8) is positioned close to the WAAM component (4, 10), maintaining a few millimetres gap between the tungsten electrode tip (11) and the WAAM component (10). The ultra-pure argon gas is purged just before switching on the electric arc (9) between the tungsten electrode tip (11) and the surface of the WAAM component (4, 10), creating an inert environment. The rough surface (15) subjected to the electric arc (9), melts and forms a molten pool (12) due to the heat generated from the electric arc (9). The molten pool (12) solidifies as the electric arc (9) moves away from that spot leaving a smooth surface (14) behind. The surface characteristic investigation reveals 45 % reduction in the average surface roughness (Sa) of the top surface and 70 % reduction in the Sa value for the side surface of the WAAM component (4, 10).

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431004441 A

(19) INDIA

(22) Date of filing of Application :22/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A HYBRID PHOTOVOLTAIC-THERMAL SOLAR DRYER

(51) International classification :F24S20/30, F26B3/28,
H02S10/30
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR**

Address of Applicant :Sponsored Research & Industrial
Consultancy, Indian Institute of Technology Kharagpur,
Kharagpur, West Bengal, India, Pin – 721302 Kharagpur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)TRIPATHY, Punyadarshini Punam

Address of Applicant :Associate Professor, Department of
Agricultural and Food Engineering, Indian Institute of Technology
Kharagpur, Kharagpur, West Bengal, India PIN - 721302
Kharagpur -----

2)BISWAS, Rohit

Address of Applicant :Research Scholar, Department of
Agricultural and Food Engineering, Indian Institute of Technology
Kharagpur, Kharagpur West Bengal, India PIN - 721302
Kharagpur -----

(57) Abstract :

ABSTRACT A HYBRID PHOTOVOLTAIC-THERMAL SOLAR DRYER Provided is a hybrid Photovoltaic-Thermal (PV-T) solar dryer (100). The hybrid PV-T solar dryer comprises a PV-T solar collector (120) for generating solar energy during daytime, a Thermal Energy Storage unit (TES) (122), and a dryer chamber (115). The TES unit stores the solar energy generated by the PV-T solar collector (120). Further, the dryer chamber (115) is adapted for drying a plurality of materials. The PV-T solar collector comprises a transparent solar glass (101), a semi-transparent Building Integrated Photovoltaic Panel (BIPV) (102), and an absorber plate (103) with solid cross-flow baffles (201). The BIPV is configured to generate solar energy by absorbing the sun rays and pass a portion of the sun rays through the BIPV. Additionally, the TES comprises an induction heating coil (111) for heating a paraffin wax (109) based on stored solar energy for increasing temperature of the air flowing through a central pipe during nighttime. Figure 1

No. of Pages : 22 No. of Claims : 8

(54) Title of the invention : A Real-time Portable Low-Power Skin Cancer Detection Device

(51) International classification :A61B5/00, A61B8/08, G01N33/574,
G16H50/20, G16H50/30

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Sheli Sinha Chaudhuri
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata, WB, India Kolkata -----
2)Dr. Chinmoy Ghorai
3)Singhan Ganguly
4)Anisha Paul
5)Asfak Ali
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Asfak Ali
 Address of Applicant :Sashipur, P.O.-Kuliagarh, P.S-Amdanga, Dist-North 24 Parganas, PIN-743166 -----
2)Anisha Paul
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata, WB, India Kolkata -----
3)Singhan Ganguly
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata, WB, India Kolkata -----
4)Dr. Chinmoy Ghorai
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata, WB, India Kolkata -----
5)Dr. Sheli Sinha Chaudhuri
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata, WB, India Kolkata -----

(57) Abstract :
 The real-time skin cancer detection unit boasts a sophisticated sensing module meticulously designed for evaluating the skin's physical condition and gathering essential parameters crucial for skin health monitoring. At the core of this system is a camera (101), the primary data acquisition component, adept at capturing detailed images of the skin from suspected patients. Operating as the input unit - the camera (101) captures RGB images, succinctly representing the measured physical condition parameters of the skin. These images undergo seamless processing by the main processor (102), operating efficiently on a 12 Volt power source (103). Following data collection and processing, the main Processor Unit (102) displays the meticulously measured data on an attached display unit (104). To ensure data security, the displayed information is locally stored in a memory unit (105) in .txt format, serving as a dependable backup. Simultaneously, the data is transmitted to a central server (201) via a dedicated transmitting unit (106). The local monitoring unit (104) incorporates key components, including sensor data from the camera (101), a main processor unit (102), a memory unit (105), and a transmitting unit (106). Significantly, the skin cancer detection system extends beyond local monitoring capabilities. Skin cancer data can be remotely accessed and monitored from any remote device (202) through secure remote login. The robustness of these skin cancer measures positions them as highly effective tools for accurately classifying different skin cancer types. Furthermore, it is noteworthy that the entire system operates on a low-powered 12-volt supply (103), emphasizing its energy efficiency and suitability for deployment in various settings. This real-time skin cancer detection system signifies a significant advancement in the field, offering a comprehensive solution for prompt and remote skin health monitoring, paralleling the format of an IoT-based real-time portable low-power skin cancer detection device. {Figure 1 and 2}

No. of Pages : 18 No. of Claims : 10

(54) Title of the invention : AN ENERGY-EFFICIENT PORTABLE DEVICE FOR DEHAZING

(51) International classification :G06F0001160000, G06F0015760000, G06T0005000000, G06T0007000000, B60W0020000000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)**Name of Applicant :**
1)Chinmoy Ghorai
 Address of Applicant :Trayee Apartment, 5B/ 4th Floor, Block - 4, 10/23 P. N. Sarani, Rahara Mission Para -----
2)Avra Ghosh
3)Asfak Ali
4)Dr. Sheli Sinha Chaudhuri
Name of Applicant : NA
Address of Applicant : NA

(72)**Name of Inventor :**
1)Avra Ghosh
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata 700032 Kolkata -----
2)Asfak Ali
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata 700032 Kolkata -----
3)Chinmoy Ghorai
 Address of Applicant :Trayee Apartment, 5B/ 4th Floor, Block - 4, 10/23 P. N. Sarani, Rahara Mission Para -----
4)Dr. Sheli Sinha Chaudhuri
 Address of Applicant :Department of Electronics & Telecommunication Engineering, Jadavpur University, 188, Raja S. C. Mallick Rd, Kolkata 700032 Kolkata -----

(57) Abstract :
 The developed portable dehazing device is engineered to elevate visual aesthetics. At its core lies a camera (101), the primary data acquisition component adept at capturing detailed images of hazy scenes. Serving as the input unit, the camera (101) captures images, seamlessly processed by the main processor (102), operating efficiently on a 12-volt power source (103). Following data collection and processing, the main processor Unit (102) exhibits the enhanced scene on an attached display unit (104). To ensure data security, the displayed information is locally stored in a memory unit (105) in PNG format, providing a reliable backup. Notably, the entire system functions on a low-power 12-volt supply (103), underscoring its energy efficiency and suitability for deployment in diverse settings. {Figure 1}

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431005490 A

(19) INDIA

(22) Date of filing of Application :27/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR EFFECTIVE VOLUMETRIC SEGMENTATION OF MEDICAL IMAGES INVOLVING SPATIO-SPECTRAL COMPONENTS

(51) International classification :G06N0003040000, G06N0003080000, G06T0007110000, G16H0030400000, G16H0050200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)IDEAS - Institute of Data Engineering, Analytics and Science Foundation
 Address of Applicant :6th Floor R.A. Fisher Bhavan, Indian Statistical Institute 203, Barrackpore Trunk Road Kolkata West Bengal India Kolkata -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Sushmita Mitra
 Address of Applicant :IDEAS - Institute of Data Engineering, Analytics and Science Foundation, 6th Floor R.A. Fisher Bhavan, Indian Statistical Institute 203, Barrackpore Trunk Road Kolkata West Bengal India 700108 Kolkata -----
2)Pallabi Dutta
 Address of Applicant :IDEAS - Institute of Data Engineering, Analytics and Science Foundation, 6th Floor R.A. Fisher Bhavan, Indian Statistical Institute 203, Barrackpore Trunk Road Kolkata West Bengal India 700108 Kolkata -----

(57) Abstract :
 ABSTRACT TITLE OF THE INVENTION: SYSTEM AND METHOD FOR EFFECTIVE VOLUMETRIC SEGMENTATION OF MEDICAL IMAGES INVOLVING SPATIO-SPECTRAL COMPONENTS A system and method for volumetric segmentation of images including medical image segmentation for processing of medical images and the like involving wavelet-infused hybridised convolution transformer network operability and method for concurrent identifying multi-scalar features involving both spatial and spectral features of medical image and integrating the complementary representations of spectral convolution module and transformer module. The SpectraConv module acquires multi-scalar textural patterns and granular details from DWT of the input images. DA block identifies relevant activation maps from the feature maps captured from the spatial domain of the image followed by determining global dependencies among the different spatial locations, using the self-attention mechanism of the transformer module. The CCA block integrates the complementary features from the convolution and transformer blocks. The integration of information from both the frequency and spatial domains enables network leveraging complementary strengths and performance to capture intricate relationships within input image for desired image segmentation. Figure 2.

No. of Pages : 54 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431006089 A

(19) INDIA

(22) Date of filing of Application :30/01/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : A cement-free mortar (CFM) composition

(51) International classification :C04B18/04, C04B18/08, C04B18/14, C04B28/02, C04B28/08, C04B28/26, C04B7/153

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

Address of Applicant :Dhanbad - 826004, Jharkhand, India
Dhanbad -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Satadru Das Adhikary

Address of Applicant :Department of Civil Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Dhanbad - 826004, Jharkhand, India Dhanbad -----

2)Dipanshu Jain

Address of Applicant :Department of Civil Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad, Dhanbad - 826004, Jharkhand, India Dhanbad -----

(57) Abstract :

The present invention relates to a cement-free mortar (CFM) composition comprises an aggregate and a binder in a proportion of 1:0.9 to 1:1.2 by weight, preferably 1:1 by weight and a process for the preparation thereof.

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : AN AUTONOMOUS MOBILE ROBOT SYSTEM MONITORING EMOTIONAL AND PHYSICAL HEALTH PARAMETERS AND A METHOD THEREOF

(57) Abstract :

The increasingly ageing population and the tendency to live alone have led science and engineering researchers to search for health care solutions. In the COVID 19 pandemic, the elderly have been seriously affected in addition to suffering from isolation and its associated and psychological consequences. This work provides an overview of the RobWell (Robotic-based Well-Being Monitoring and Coaching System for the Elderly in their Daily Activities) system. It is a system focused on the field of artificial intelligence for mood prediction and coaching. This work presents a general overview of the initially proposed system as well as the preliminary results related to the home automation subsystem, autonomous robot navigation and mood estimation through machine learning prior to the final system integration, which will be discussed in future works. The main goal is to improve their mental well-being during their daily household activities. The system is composed of ambient intelligence with intelligent sensors, actuators and a robotic platform that interacts with the user. A test smart home system was set up in which the sensors, actuators and robotic platform were integrated and tested. For artificial intelligence applied to mood prediction, we used machine learning to classify several physiological signals into different moods. In robotics, it was concluded that the ROS autonomous navigation stack and its autodocking algorithm were not reliable enough for this task, while the robot's autonomy was sufficient. Semantic navigation, artificial intelligence and computer vision alternatives are being sought.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431008517 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SMART IOT BASED - AQUACULTURE SYSTEM FOR PRECISION CULTIVATION OF MICROALGAE STRAINS WITH SUSTAINABILITY AND EFFICIENCY

(51) International classification :G06Q0010060000, A01K0063040000, C12N0001120000, A01K0063000000, A01K0061600000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Polaki Suman
 Address of Applicant :Assistant Professor Department of Biotechnology M.S. Swaminathan School of Agriculture Centurion University of Technology and Management Alluri Nagar, R Sitapur, Gajapati, Parlakhemundi, Odisha – 761211, India. -----
Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)B. Rabi Prasad
 Address of Applicant :Department of Biotechnology, GIET University, Gunupur Rayagada, Odisha - 765022 -----
2)K. Siva Krishna
 Address of Applicant :Department of Computer Science and Engineering, GIET University, Gunupur Rayagada, Odisha - 765022 -----
 -
3)G.V.S. Narayana
 Address of Applicant :Department of Computer Science and Engineering, GIET University, Gunupur Rayagada, Odisha - 765022 -----
 -
4)Ghanistha Prusty
 Address of Applicant :Department of Biotechnology, GIET University, Gunupur Rayagada, Odisha - 765022 -----
5)A.V. Mahesh
 Address of Applicant :Department of Computer Science and Engineering, GIET University, Gunupur Rayagada, Odisha - 765022 -----
 -
6)K. Sirisha
 Address of Applicant :Department of Computer Science and Engineering, GIET University, Gunupur Rayagada, Odisha - 765022 -----
 -
7)M. Srinu
 Address of Applicant :Department of Computer Science and Engineering, Aditya Engineering College (A) Tekkali, Srikakulam, Andhra Pradesh - 765022 -----
8)Sandhyarani Dash
 Address of Applicant :Department of Computer Science and Engineering, GIET University, Gunupur Rayagada, Odisha - 765022 -----
 -

(57) Abstract :
 This invention describes an Aquaculture System to optimize the cultivation of microalgae, including Spirulina, Haematococcus Pluvialis, and Nannochloropsis, with a focus on environmental sustainability and efficiency. The core of the system is an advanced Aquaculture Smart Tank equipped with smart sensors and integrated into an environmental control system. This tank provides tailored environments for each microorganism, maintaining precise conditions for growth. The system incorporates an AI-driven harvesting mechanism, an essential component of the Aquaculture Smart Tank, ensuring the precise timing of harvests to maximize productivity. Additionally, an Automated Drying System efficiently removes excess moisture from the harvested microalgae. Further processing is facilitated by precision-controlled tablet-making machines within the Drying and Tablet Processing Unit, ensuring uniform tablet size and quality. Environmental impact analysis tools continuously monitor sustainability metrics, reducing the ecological footprint. These innovations combine to create a comprehensive Aquaculture System that enhances microalgae production while adhering to responsible environmental practices.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431008612 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVELOPMENT OF NOVEL COMPLEMENTARY FOOD FROM INDIGENOUS BLACK RICE

<p>(51) International classification :A61K0045060000, A23L0033160000, A61P0003020000, A23L0011000000, A23L0025000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Dr. Pradeep Kumar Naik Address of Applicant :Centre of Excellence in Natural Products and Therapeutics, Department of Biotechnology and Bioinformatics, Sambalpur university, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>2)Payal Sharma 3)Aparajita Priyadarshini 4)Dibya Ranjan Sahoo 5)Srichandan Rath 6)Sajna Sameekshya Hota Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr. Pradeep Kumar Naik Address of Applicant :Centre of Excellence in Natural Products and Therapeutics, Department of Biotechnology and Bioinformatics, Sambalpur university, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>2)Payal Sharma Address of Applicant :P.G. Department of Food Science Technology and Nutrition,Sambalpur University, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>3)Aparajita Priyadarshini Address of Applicant :P.G. Department of Food Science Technology and Nutrition,Sambalpur University, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>4)Dibya Ranjan Sahoo Address of Applicant :Centre of Excellence in Natural Products and Therapeutics, Department of Biotechnology and Bioinformatics, Sambalpur university, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>5)Srichandan Rath Address of Applicant :Centre of Excellence in Natural Products and Therapeutics, Department of Biotechnology and Bioinformatics, Sambalpur university, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p> <p>6)Sajna Sameekshya Hota Address of Applicant :Centre of Excellence in Natural Products and Therapeutics, Department of Biotechnology and Bioinformatics, Sambalpur university, Jyoti Vihar, Burla, Sambalpur, Odisha, Pin Code: 768019 -----</p>
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(57) Abstract :

The present invention relates to a novel complementary food formulation aimed at addressing malnutrition in young children aged 6 to 24 months. Developed from indigenous black rice (Kalabati), the formulation is rich in essential nutrients such as carbohydrates, proteins, and antioxidants. Key ingredients include parboiled black rice flour, sprouted ragi flour, roasted peanut flour, roasted soybean flour, jaggery, and toned milk powder. Through a systematic process, the formulation achieves optimal nutritional balance and digestibility. Biochemical and in vivo studies demonstrate its safety and efficacy, highlighting its potential as a weaning food. The formulation's versatility allows for various dosage forms, making it adaptable to different dietary needs. Overall, this innovative approach offers a promising solution to combat infant malnutrition and improve nutritional outcomes.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431008660 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : PORTABLE BALL MILL MACHINE SYSTEM FOR HOMOGENEOUSLY MIXING DISTINCT NANOPARTICLES AND ITS OPERATING METHOD THEREOF

<p>(51) International classification :B02C0017220000, B02C0017100000, C22C0032000000, H02K0007100000, A01K0005000000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)National Institute of Technology Jamshedpur Address of Applicant :Adityapur-2, Jamshedpur - 831014, Jharkhand, India Jamshedpur -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Deepak Kumar Address of Applicant :B-5, Professor's Colony, NIT Jamshedpur, Adityapur-2, Jamshedpur - 831014 Jamshedpur -----</p> <p>-</p> <p>2)Swaroop Kumar Mandal Address of Applicant :Shakuntala Kunj, Friends Colony, Maira Tola Damodarpur, Dhanbad Jharkhand - 826004 Dhanbad -----</p> <p>-----</p> <p>3)Rahul Kumar Address of Applicant :Flat no - 227 D, Aditya Syndicate Apartment, Adityapur - 2 Near NIT JSR Main Gate Jamshedpur - 831014 Jamshedpur -----</p>
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(57) Abstract :

The present invention generally relates to a portable ball mill machine system for homogeneously mixing distinct nanoparticles. The system comprises an AC-DC (alternate current-direct current) converter (10) to generate a stable power supply; a motor (2) housed in a motor box (1) and actuated by said power supply generated by said AC-DC converter (10); a cylindrical container (5) having a proximal end and a distal end, wherein a coupling (4) is coupled to said proximal end of said cylindrical container (5); and a mixing chamber (6) having a plurality of steel balls (7) concentrically positioned inside said cylindrical container (5), wherein said mixing chamber (6) is engaged with said DC motor (2) through a motor shaft (3) such that said mixing chamber (6) rotates in a clockwise or anticlockwise direction upon rotating said motor (2) to crush nanoparticles, contributing to homogeneous mixing.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202431008681 A

(19) INDIA

(22) Date of filing of Application :08/02/2024

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR LOAD FORECASTING IN POWER SYSTEMS

(51) International classification :G06N0003120000, G06F0030200000, G06F0017180000, H04W0024020000, G06Q0030020000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)National Institute of Technology Patna

Address of Applicant :Ashok Rajpath, Patna - 800005, Bihar, India. Patna -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)DHRUBA KUMAR

Address of Applicant :Department of Electrical Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna – 800005, Bihar, India. Patna -----

2)AASIM

Address of Applicant :Department of Electrical Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna – 800005, Bihar, India. Patna -----

3)R. K. MANDAL

Address of Applicant :Department of Electrical Engineering, National Institute of Technology Patna, Ashok Rajpath, Patna – 800005, Bihar, India. Patna -----

(57) Abstract :

The present disclosure discloses a system (100) and method for load predictions in power systems (100). It utilizes an Autoregressive Integrated Moving Average (ARIMA) model (112) for optimising parameters of the power systems (100). The components of the system 100 include an autoregressive component, a differencer component, and a moving average component, and the output of all components is optimized by the ARIMA model (112). It involves using statistical methods to analyze autocorrelation functions, partial autocorrelation functions, and other relevant metrics for fine-tuning the ARIMA model (112), which utilizes dynamic adjustment to ensure the model remains responsive to changing patterns in power consumption. The system (100) reduces computational complexity by using parallel and GPU-based computing frameworks coupled with hyperparameter optimization (116) of the ARIMA model (112) with a genetic algorithm.

No. of Pages : 33 No. of Claims : 10

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045344 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING AND IDENTIFYING SPY VEHICLE FOLLOWER

(51) International classification :E06B0007300000,
G06T0007730000,
G06F0021830000,
G06T0007200000,
A61B0090900000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.**
Address of Applicant :No. 18, Haibin Road, Wusha,
Chang'an, Dongguan, Guangdong-523860, China; China

(72)**Name of Inventor :**
1)Umesh Kumar Tailor

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR DETECTING AND IDENTIFYING SPY VEHICLE FOLLOWER The present disclosure provides a method [200] and a system [100] for detecting and identifying a spy vehicle. The method [200] comprises receiving, at a transceiver unit, a set of data associated with one or more spy vehicle followers from a plurality of sources. Next, the method comprises analysing, by a processing unit, the set of data to detect the one or more spy vehicle followers. Next, the method comprises rerouting, by the processing unit, the path of the user associated with a main vehicle to confirm the presence of the one or more spy vehicle followers. Lastly, the method includes alerting, by the processing unit, the presence of the one or more spy vehicle followers to the user in an event the one or more detected spy vehicle continues to follow the main vehicle even after rerouting the path of the user.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045346 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PERFORMANCE BASED WAGE EVALUATION DEVICE

(51) International classification	:A61B0005000000, A61B0005110000, A61B0005024000, A61B0005010000, A61B0005020500	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Tanvi Arora
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a performance based wage evaluation device comprises of, a wearable unit 1 suited to be worn by a user over the wrist portion via a pair of straps 2 to secure wearable unit 1 over wrist portion, a sensing module 3 integrated on wearable unit 1 for measuring pulse rate and body temperature of user's body, a MEMS (Micro Electro-Mechanical System) sensor 4 integrated within wearable unit 1 for calculating the number of steps taken by the user, a timer unit 5 installed with the device for monitoring the time period the user had worked in order to calculate their wages and a display unit 6 is attached with the wearable unit 1 for displaying the real-time calories burnt by the user and the time-period taken by the user while performing the task.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045347 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATIC PILL DISPENSING SYSTEM

(51) International classification :G07F0017000000,
B65B0005100000,
A61J0007040000,
A61J0001030000,
A61J0007000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chandigarh Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab-
140307, India. Mohali Punjab India

(72)Name of Inventor :
1)Shanky Goyal
2)Muskan
3)Naman Sharma
4)Manish Agarwal

(57) Abstract :

An automatic pill dispensing system comprises of a body 1 installed with a chamber 3 divided in multiple compartments 4 filled with different medication strips, a primary computing unit 5 for inputting commands for pill's details, a laser cutter 6 for cutting medication strips in user-defined number of pills, an iris lid 7 for dropping pills on a first conveyer 8 for translating pills towards a second conveyer 10 placed with boxes 11, to collected in different boxes 11 separately, a packing unit 12 for packing boxes 11 accommodated with pills, a labelling unit 13 for labelling pill's name/number in boxes 11 and upon labelling microcontroller actuates conveyer 10 for dropping boxes 11 in containers 15 placed in next to second conveyer 10, an RFID reader 14 for collecting container 15 packed with pills, upon successful authentication microcontroller actuates a motorized lid 16 for allowing user(s) to collect container 15.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045348 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : WEARABLE MOBILITY ASSISTIVE DEVICE FOR VISUALLY IMPAIRED PERSON

(51) International classification :A61H0003060000,
G09B0021000000,
G01C0021200000,
G06K0009000000,
B60S0001080000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chandigarh Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector
112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab
140307, India. Mohali Punjab India

(72)Name of Inventor :
1)Dr. Vinay Bhatia
2)Kuldeep sharma
3)Atif Bin Khalid
4)Mohit Kumar Gupta
5)Ravi Tiwari
6)Mukund Shukla
7)Adil Bin Khalid

(57) Abstract :

A wearable mobility assistive device for visually impaired persons, comprising of a wearable body 1 to be worn by a visually impaired person and equipped with a voice recognition module 2 to recognize person's voice commands, a global positioning system (GPS) based module 3 to determine current location of person, an audio unit 10 to navigate person from his/her current location to location of destination, multiple ultrasonic sensors 4 to determine presence of any obstacle in proximity of person's body, multiple vibrating units 5 to alert person regarding presence of obstacles, an artificial intelligence based image capturing module 6 to capture multiple images of surroundings as means of detecting people along with analyzing sign boards along with traffic indications by feature extraction, and a rain sensor 7 to detect rainfall and activates a pneumatic frame 8 wrapped with a water proof sheet to provide a protection to person from rain.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045574 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : POSTURE BELT FOR PROVIDING SAFETY TO WORKERS WORKING IN ADVERSE ENVIRONMENTAL CONDITIONS AND METHOD THEREOF

(51) International classification :G08B0021020000,
A61K0008730000,
G06Q0010060000,
G08B0021140000,
A01N0003020000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Galgotias University
Address of Applicant :Plot No. 2, Yamuna Expy, Opposite,
Buddha International Circuit, Sector 17A, Greater Noida, Uttar
Pradesh 203201 Email Id: ipr@galgotiasuniversity.edu.in,
vcoffice@galgotiasuniversity.edu.in Mb No. : 91-1204806813
Greater Noida Uttar Pradesh India

(72)Name of Inventor :
1)Brijesh Singh
2)Dr. Lokesh Varshney

(57) Abstract :
POSTURE BELT FOR PROVIDING SAFETY TO WORKERS WORKING IN ADVERSE ENVIRONMENTAL CONDITIONS
AND METHOD THEREOF

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045575 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR MEASURING SHARED LEADERSHIP IN AN INFORMATION TECHNOLOGY SECTOR

(51) International classification	:G06Q0010060000, G10L0015220000, H04W0004080000, G01N0033500000, G06F0017000000	(71) Name of Applicant : 1)Galgotias University Address of Applicant :Plot No. 2, Yamuna Expy, Opposite, Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh 203201 Email Id: ipr@galgotiasuniversity.edu.in, vcoffice@galgotiasuniversity.edu.in Mb No. : 91-1204806813 Greater Noida Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Alka Agnihotri
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method (200) for measuring shared leadership in an Information Technology (IT) sector, the method (200) comprising steps of: enabling a user to provide a response by selecting one of, response categories (104) provided corresponding to each of pre-defined independent variables (102) on a scale (100); evaluating scores of each of the pre-defined independent variables (102) based on the response provided by the user for each of the pre-defined independent variables (102) by using a method of central tendency; analyzing a relative importance and a dominant role of characteristics present based on the evaluated score; and applying a factor analysis to obtain components of the shared leadership.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045582 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM FOR OPTIMIZING ENERGY IN AN ENERGY HARVESTING NETWORK AND A METHOD THEREOF

(51) International classification	:H02J0003380000, H02M0001000000, H02M0007538700, H02M0007480000, H02J0013000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROPAR Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY ROPAR, Birla Farms, Rupnagar - 140001, Punjab, India Rupnagar Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SEKHAR, K Ramachandra
(33) Name of priority country	:NA	2)KUMAR, Aashish
(86) International Application No	:NA	3)KUMAR, Nikhil
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to system (100) and method (300) for optimizing energy in energy harvesting network. The system (100) comprises source modules (102), inverter modules (104), motor (106), grid (110), transformer (108), AC breakers (114), DC breakers (116). The source modules (102) comprising common sources or isolated sources. One end of each of inverter module (104) from predefined number of inverter modules is connected to source modules (102) and source modules (102) and the plurality of inverter modules (104) share energy according to different modes. Motor (106) with one end connected to other end of inverter modules (104). Each phase from three-phase terminals (R, Y and B) of inverter modules (104) are connected with primary winding of each phase of transformer (108). The inverter modules (104), motor (106) and transformer (108) are serially connected. The transformer (108) is interfaced with grid (110) through grid synchronizer (112).

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045589 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : FINGERTIP SANITIZER DISPENSER

(51) International classification	:A61L0002180000, G02F0001133700, A01N0031020000, A61L0002220000, B01F0007160000	(71)Name of Applicant : 1)CHITKARA INNOVATION INCUBATOR FOUNDATION Address of Applicant :SCO: 160-161, SECTOR – 9C, MADHYA MARG, CHANDIGARH – 160009, INDIA Email- sachin.ahuja@chitkara.edu.in Mobile No. – 9217730035 Chandigarh Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)KUMAR RAJESH
(33) Name of priority country	:NA	2)LAL NAND
(86) International Application No	:NA	3)KUMAR KRISHAN
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fingertip sanitizer dispenser (100), the dispenser (100) comprising: a sanitizer bottle (102) configured to hold sanitizing solution (104); a damper pad (108) arranged at a lower side of the sanitizer bottle (102), and to be pressed by a user by using fingertips to be sanitized to dispense the sanitizing solution (104) from the sanitizer bottle (102), wherein the sanitizing solution (104) is dispensed through perforated holes (106a-106n); and a rubbing cloth (110) arranged on an upper side of the sanitizer bottle (102), and configured to enable the user to scrub the sanitized fingertips.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045610 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SIGNAL LEVEL ENHANCED NETWORK SELECTION

(51) International classification	:H04W0048180000, H04L0029120000, H04W0052020000, H04L0029060000, H04W0052160000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GUPTA, Vivek G
(33) Name of priority country	:NA	2)MAYALIL, Stanley M
(86) International Application No	:NA	3)PRAKASAM, Sridhar
Filing Date	:NA	4)VIJAYA KUMAR, Anikethan Ramakrishna
(87) International Publication No	: NA	5)KOSHTA, Nirlesh
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SIGNAL LEVEL ENHANCED NETWORK SELECTION Embodiments herein include methods, systems, and apparatuses for performing an automatic network selection based on an operator controlled 5 signal threshold. A signal threshold file may be available on a Universal Subscriber Identity Module (USIM). The signal threshold file may include one or more operator controlled signal threshold. A user equipment (UE) may perform a signal threshold based public land mobile network (PLMN) selection procedure using the operator controlled signal threshold.

No. of Pages : 47 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045620 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PREVENTION OF SHOULDER SURFING WITH THE USE OF GRAPHICAL PASSWORD AUTHENTICATION

(51) International classification	:G06F0021360000, G06F0021460000, H04L0029060000, B32B0037150000, H04L0009080000	(71)Name of Applicant : 1)Kumar Nitesh Address of Applicant :NIIT University Rajasthan India 2)Arushi Mittal 3)Vishal Sahu 4)Chirag Bhatnagar
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Kumar Nitesh 2)Arushi Mittal 3)Vishal Sahu 4)Chirag Bhatnagar
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Shoulder Surfing attacks allow the adversary to gain the user's password by peering over the user's shoulder as he or she types their password into their devices. A typical user's password is particularly vulnerable to shoulder surfing. As a result, prevention of such attacks becomes increasingly necessary. Because the majority of the people are more accustomed to textual passwords than graphical passwords, much research has been conducted to incorporate such a system that has the components of a textual password but is also effective in preventing shoulder surfing to a greater extent. Unfortunately, none of the proposed text-based shoulder surfing prevention graphical passwords is both secure and efficient. In this paper, we will offer an idea that includes elements of both textual password and graphical password approaches by introducing different color and dial combinations to boost the security and effectiveness of a graphical password system while keeping the familiarity of a textual password.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045624 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ELECTRIC VEHICLE

(51) International classification :B60K0001040000,
B60L0050600000,
B60L0053800000,
B60L0050640000,
B62J0043000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HERO MOTOCORP LIMITED
Address of Applicant :The Grand Plaza, Plot No.2, Nelson
Mandela Road, Vasant Kunj- Phase -II, New Delhi, India, 110 070
New Delhi Delhi India

(72)Name of Inventor :
1)BHARDWAJ, Rajat
2)JAIN, Anuj
3)AGARWAL, Ankit
4)DADHEECH, Gaurav
5)DWIVEDI, Satyendra Dhar
6)GAIKWAD, Anil Uttam

(57) Abstract :

ABSTRACT The present disclosure relates to an electric vehicle (100) and its configuration. The electric vehicle includes a body frame (116) defining a front end and a rear end (118). The rear end being configured to support rear ground engaging members. The electric vehicle further includes a battery case (110) being configured to receive and support one or more battery modules (110b). The battery case being configured to be operated between a first position (F) and a second position (S) relative to the body frame (116). The configuration of the battery case of the present disclosure enables easy removal or replacing of the battery modules. To be published with FIG. 1

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045632 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD OF GREEN SYNTHESIS OF STARCH NANOPARTICLES USING DRY PEA

(51) International classification	:B22F0009240000, C08B0030040000, C08B0030060000, C08F0251000000, A24B0015120000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :Bajhol Sultanpur Solan Himachal Pradesh India Solan Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Nancy
(33) Name of priority country	:NA	2)Prafull Chavan
(86) International Application No	:NA	3)Archana Sinhmar
Filing Date	:NA	4)Dr. Somesh Sharma
(87) International Publication No	: NA	5)Dr. Rahul Thory
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD OF GREEN SYNTHESIS OF STARCH NANOPARTICLES USING DRY PEA ABSTRACT A method (100) of green synthesis of starch nanoparticles using dry pea comprising steps of collecting dry pea, at step 102. Soaking 500 grams dry pea into water with 0.1 % of potassium metabisulphite, at step 104. Grinding soaked pea to obtain slurry and filtered through nylon cloth, at step 106. Centrifuging slurry at 1500 rotation per minute for 5 minutes to separate supernatant, at step 108. Drying slurry for obtaining starch. Mixing 15 grams of starch with 3.2 M sulphuric acid and centrifuge at 200 rotations per minute for 7days at 30 degrees Celsius. Obtaining starch nanoparticles precipitate by centrifuging mixture at 5000 rotations per minute and washed with distilled water, at step 112. Neutralizing starch nanoparticle with acetone, at step 114. Drying starch nanoparticle in hot air oven at 40 degrees Celsius for 10 hours. Analysing starch nanoparticles for particle size distribution at wavelength of 633nm, 116. FIG. 1

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045633 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR DEVELOPMENT OF NANOPARTICLES FROM INDIAN DESHI LITCHI SEEDS STARCH

(51) International classification	:C01G0023053000, C01F0007020000, C01F0017206000, C08B0031180000, C12P0019040000	(71)Name of Applicant : 1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES Address of Applicant :Bajhol Sultanpur Solan Himachal Pradesh India Solan Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prafull Chavan
(33) Name of priority country	:NA	2)Dr. Kanika Dulta
(86) International Application No	:NA	3)Dr. Somesh Sharma
Filing Date	:NA	4)Archana Sinhmar
(87) International Publication No	: NA	5)Dr. Rahul Thory
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD FOR DEVELOPMENT OF NANOPARTICLES FROM INDIAN DESHI LITCHI SEEDS STARCH ABSTRACT The present invention discloses a method (900) for development of nanoparticles (802) from native starch (102) of Indian deshi litchi seeds starch. The method (900) comprises initially mixing the native starch (102) in an aqueous sulphuric acid solution to form a mixture, at step (902). The method (900) further comprises keeping the mixture in an orbital shaker (302) to form a suspension, at step (904). The method (900) further comprises centrifuging the suspension using a centrifuge (402) to form a precipitate, at step (906). The method (900) further comprises washing the precipitate by successive centrifugations in distilled water (502), at step (908). The method (900) further comprises replacing solvent by washing the precipitate thrice with the acetone (502) to form a final suspension, at step (910). The method (900) further comprises drying the final suspension in a hot air oven (702), to form the nanoparticles (802), at step (912). FIG. 9

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045349 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : UNMANNED AERIAL VEHICLE-BASED FOOD DELIVERY SYSTEM

(51) International classification	:G06Q0050120000, B64C0039020000, G08B0025100000, B60P0003025000, A47J0047140000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Piyush Vashisht
(33) Name of priority country	:NA	2)Rachana Sharma
(86) International Application No	:NA	3)Harsh Jindal
Filing Date	:NA	4)Ritesh Sinha
(87) International Publication No	: NA	5)Dr. Santosh Kumar
(61) Patent of Addition to Application Number	:NA	6)Harsh
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An unmanned aerial vehicle-based food delivery system includes a computing unit 1 that allows a customer staying in a hotel room 2 for inputting commands regarding required food, a microcontroller for processing customer's commands, to display notification on computing unit 1 for confirming order, a communication module establishing a wireless connection between microcontroller and a primary display screen 3 for notifying user regarding customer's order to be prepared, an unmanned aerial vehicle 6 present near kitchen 4 and installed with a container 7 such that upon preparing food, user place prepared food in container 7 and accesses screen 3 to input commands for a room number in which customer is residing, a buzzer 5 to notify customer to open room's 2 door for collecting food, a thermal imaging unit 8 for detecting body temperature customer, a secondary screen 9 for displaying room number for confirmation of allotted room number.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045350 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : WASTE WATER TREATMENT SYSTEM

(51) International classification :G01N0033180000,
C02F0003120000,
C02F0001780000,
C02F0001000000,
A01K0063040000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chandigarh Group of Colleges

Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab-
140307, India. Mohali Punjab India

(72)Name of Inventor :

1)Dr. Pradeep K Gaur

2)Mohit Kaundal

3)Sanjana Mattu

(57) Abstract :

The present invention relates to a waste water treatment system, comprising a primary chamber 1 configured with a pair of filter membranes 2 for separating heavy particles from collected waste water, a first pump for transferring the water from the primary chamber 1 to a centrifugal separator 3, a primary suction unit for transferring the water towards an aeration chamber 5, an air compressor 6 for decreasing carbon dioxide concentration in the water, a second pump for transferring the aerated water towards a secondary chamber 7, plurality of containers 8 for storing multiple disinfectants, an ECV (electronically controlled valve) for dispensing pre-defined amount of the disinfectants within the clean water, a motorized stirrer for mixing the disinfectants with clean water, a pH sensor for detecting pH of the clean water and a third pump for supplying clean water to corresponding next floor of the building.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045351 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATED GAS CYLINDER MAINTENANCE SYSTEM

(51) International classification :A62C0037360000,
G08B0025100000,
B60K0015030000,
G08B0021180000,
F17C0013020000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chandigarh Group of Colleges

Address of Applicant :Landran Kharar Banur Highway, Sector
112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab
140307, India. Mohali Punjab India

(72)Name of Inventor :

1)Rupinder Kaur Tiwana

2)Hemlata

3)Kirti Prashar

4)Dr. Simerjeet Singh

(57) Abstract :

An automated gas cylinder maintenance system, comprising an LPG (Liquefied Petroleum Gas) cylinder 1 installed within an enclosure 2 for supplying LPG, a weight sensor 3 detects weight of LPG filled within cylinder 1 at the time of installation for lodging complaint regarding detected weight, a temperature sensor 4 detects temperature of surroundings for notify a user, agency, and a fire station regarding detected temperature via first, second and third computing unit respectively, a GPS (Global Positioning System) module linked with microcontroller for fetching real-time location of cylinder 1 for displaying fetched location for allowing agency and operator to take precautionary measures, an odor sensor 5 mapped on cylinder 1 for detecting odor in surroundings for notifying user regarding detected leakage and a telescopically operated gripper 6 equipped with a fire extinguisher unit 7 for releasing fire extinguishing solution from extinguisher; unit over detected fire, thereby extinguishing fire.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045352 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SECURED PASSENGER CONVEYING SYSTEM

(51) International classification	:H05B0047175000, B66B0003000000, B66B0019000000, G06F0003048100, A63B0071060000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Naman Sharma
(33) Name of priority country	:NA	2)Shruti Anand
(86) International Application No	:NA	3)Sankalp Sharma
Filing Date	:NA	4)Arpit Mehndiratta
(87) International Publication No	: NA	5)Amrik Singh
(61) Patent of Addition to Application Number:	NA	6)Dr. Amanpreet Kaur
Filing Date	:NA	7)Neetika Gupta
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A secured passenger conveying system includes an elevator 1 allows user to move between different floors of building a display screen 2 integrated in each floors for displaying a QR (Quick Response) code that is scanned by a user via a computing unit 3, a microcontroller wirelessly connected with computing unit 3 to display different floor numbers and allows user(s) to select one of the floor numbers where user desires to go, a motorized door 4 installed in elevator 1 for allowing user to get into elevator 1, a weight sensor for detecting total weight of user(s) present within elevator 1 to calculate additional weight which elevator 1 is capable of carry, a PIR sensor 5 for detecting presence of user(s) outside elevator 1, a display panel allowing user to stop elevator 1 for allowing entering additional user(s) within elevator 1 or not, thereby enabling user(s) to save time.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045353 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : READING AND WRITING DEVICE FOR SENSORY IMPAIRED PERSON

(51) International classification :G09B0021000000,
G06F0003010000,
G06F0003020000,
G09B0021020000,
G06F0003160000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chandigarh Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab-
140307, India. Mohali Punjab India

(72)Name of Inventor :
1)Naman Sharma
2)Shruti Anand
3)Manish Agarwal
4)Anurag Mehta
5)Dr. Shanky Goyal

(57) Abstract :

A reading and writing device for sensory impaired person comprising, a cuboidal member includes a braille typing unit 2 for enabling a user with visually and/or speech impaired to input commands regarding name of an e-book and/or a document the user desires to read, an IOT (Internet of Things) based internet module for downloading e-book and/or document from a database, a primary braille display panel 3 equipped with different grids 4 for embossing characters of the downloaded book and/or document that the user reads through touch sensations of finger tips, multiple touch sensors 12 integrated within the grids 4 for detecting a continuous contact of the finger tips while reading, a secondary braille display panel 5 for embossing a character projected over the long pressed grid 4, a microphone 8 for enabling the user to provide audio commands, multiple auxiliary buttons 6 for controlling multi-media controls of the device.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045354 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE SECURITY AND MONITORING SYSTEM

(51) International classification :B60R0025040000,
G06N0020000000,
H04L0029080000,
G07C0005080000,
B60R0025100000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Chandigarh Group of Colleges

Address of Applicant :Landran Kharar Banur Highway, Sector
112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab 140307,
India. Mohali Punjab India

(72)Name of Inventor :

1)Deepak Bathija

2)Gaurav Kumar

3)Varshik Jain

4)Simran Gautam

5)Vidisha Kapil

6)Kapil Mehta

(57) Abstract :

A vehicle security and monitoring system comprises of an AI (Artificial Intelligence) based imaging unit 1 for capturing the images of user present in front of system, a proximity sensor for measuring distance of user from vehicle, a computing unit 2 with an user interface for generating an alert message regarding unsuccessful user's authentication, an IoT (Internet of Things) based communication module for transmitting the signals towards computing unit 2, a GPS (Global Positioning System) module for analyzing the real-time location of vehicle, a wearable unit 5 for making selections regarding ignition of the vehicle, an ECU (Engine Control Unit) for regulating the ignition of vehicle.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045355 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DOUBLE ACTING COMPRESSOR BASED OXYGEN CONCENTRATOR

(51) International classification	:A61M0016000000, A61M0016060000, A61M0016100000, A61M0016200000, H01M0008040890	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112 Sahibzada, Ajit Singh Nagar, Landran, Mohali Punjab 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Pooja Sahni
(33) Name of priority country	:NA	2)Dr. Sukhdeep Kaur
(86) International Application No	:NA	3)Nidhi
Filing Date	:NA	4)Muskan Kumari
(87) International Publication No	: NA	5)Kumar Parth
(61) Patent of Addition to Application	:NA	6)Priyansh Kumar
Number	:NA	7)Palak
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A double acting compressor based oxygen concentrator, comprises of a double acting compressor 5 installed within body 1 and connected to filtering unit 4 to compress oxygen, a reservoir 6 to store compressed oxygen, a primary heat exchanger 7 to absorb heat generated of compressed oxygen, a conduit 8 is interconnected to reservoir 6 and integrated with oxygen mask 9 to dispense oxygen, an AI-based imaging unit 10 for monitoring user's facial expression, a SPO2 sensor 11 integrated on mask 9 to monitor oxygen level, a primary electronically controlled valve 12 assembled in with reservoir 6 for dispensing oxygen, an electrochemical oxygen purity detection sensor 13 integrated within conduit 8 to decode percentage of oxygen present, a speaker 14 to generate sound alarm, a secondary electronically controlled valve 15 to allow oxygen flow, a flow rate sensor 16 integrated with secondary electronically controlled valve 15 for maintaining oxygen flow.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045357 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED NEEDLE GUIDANCE AND TRACKING SOLUTION FOR IMAGE GUIDED INTERVENTIONAL PROCEDURES AND METHOD THEREOF

(51) International classification :A61B0034200000,
A61B0090000000,
A61B0017340000,
A61B0008080000,
A61B0008000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Secretary, Department of Biotechnology
Address of Applicant :Ministry of Science & Technology,
Government of India, Block 2, C.G.O. Complex, Lodhi Road,
New Delhi - 110003, India New Delhi Delhi India

(72)Name of Inventor :
1)UNNI, Abhijith
2)MONDAL, Apurba
3)P, Sridhar
4)SINGH, Dr. Sandeep
5)JOSHI, Dr. Deepak

(57) Abstract :

ABSTRACT INTEGRATED NEEDLE GUIDANCE AND TRACKING SOLUTION FOR IMAGE GUIDED INTERVENTIONAL PROCEDURES AND METHOD THEREOF The Invention provides a real time needle tip and trajectory tracking system. In particular, the invention provides a real time needle tip and needle trajectory tracking system and method used in ultrasound image guided interventions like peripheral nerve blocks during surgery.

No. of Pages : 33 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045371 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TRAILER HITCH POSITION FOR DIFFERENT BODY TYPES

(51) International classification	:B60D0001360000, B60D0001060000, B60R0009060000, B23Q0007040000, B60D0001070000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :Mercedesstraße 120, Stuttgart, 70372, Germany. Stuttgart Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rohan Devan
(33) Name of priority country	:NA	2)Vikas Khot
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A trailer hitch system 200 for a vehicle is disclosed. The disclosed trailer hitch system 200 comprises a cross beam 202, a trailer hitch 204 fixed to the cross beam 202, and a pair of slide assemblies 208 coupled between a rear end of a body 206 of the vehicle and the cross beam 202. The slide assemblies 208 are configured to linearly move the cross beam 202 in a longitudinal direction 210 to achieve a user defined distance of the trailer hitch 204 from a rear end of the vehicle. Thus, the slide mechanisms 208 can adjust the trailer hitch position to meet the regulation related to X-length of the trailer hitch, when the trailer hitch is to be used.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045639 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A TWO COMPONENT POLYURETHANE COATING COMPOSITION

(51) International classification	:C08G0018790000, C08G0018320000, C08G0018380000, C09D0175040000, C08G0018620000	(71) Name of Applicant : 1)SBL Specialty Coating Private Limited Address of Applicant :Haibatpur Road, Derabassi 140507, Punjab (INDIA) Derabassi Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Manas Kumar Aich
(33) Name of priority country	:NA	2)Vikesh Kumar Singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to two-component polyurethane coating compositions containing polyisocyanate and certain acrylic polyols as the binder. The coating composition of present invention is suitable for use on all kind of substrates, and results in highly durable coating which is mechanically robust without compromising on aesthetic appearance.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045641 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : MULTILAYER SYSTEM AND METHOD FOR CALL BLOCKING

(51) International classification :H04M0003420000,
H04M0003436000,
H04M0001570000,
G06Q0050100000,
H04N0001210000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ANKIT KUMAR

Address of Applicant :R/O 2/62,NAGLA KESHORAY,
GHIROR, MAINPURI, UTTAR PRADESH – 205121, INDIA
GHIROR, MAINPURI Uttar Pradesh India

(72)Name of Inventor :

1)KUMAR ANKIT

2)CHAUHAN MARTAND

3)KUMAR BHUVNESH

(57) Abstract :

ABSTRACT MULTILAYER SYSTEM AND METHOD FOR CALL BLOCKING The complete system consists of at least two different user operated electronic communication devices for establishing call, a centralized information system for creating, storing, retrieving, compiling, collating, collecting, processing, analyzing, and maintaining various databases of contact numbers, categories for known numbers, unknown numbers and groups created by the user and customized voices. Total of nine different modules such as Temporary Blocking, Smart Reply, Busy Mode, Category Level Blocking, Caller ID notification, Call Announcement, Group Blocking, Smart reply to the particular person OR a group and message announcement in customized voice make the system capable of blocking of the call temporarily/ permanently/ scheduled from at least one user preferred number, sending a user set customized message or status on a caller's device till the Busy Mode is ON and announcement of the caller information, messages received by the user in customized voice. The user can list the groups under categories.

No. of Pages : 33 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045672 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN ELECTRIC VEHICLE

(51) International classification	:H01M0002100000, B60K0001040000, B62J0043000000, B60L0050640000, B62K0011040000	(71) Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No. 2, Nelson Mandela Road, Vasant Kunj- Phase-II, New Delhi – 110070, India New Delhi Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)BHARDWAJ, Rajat
(33) Name of priority country	:NA	2)JAIN, Anuj
(86) International Application No	:NA	3)AGARWAL, Ankit
Filing Date	:NA	4)DADHEECH, Gaurav
(87) International Publication No	: NA	5)DWIVEDI, Satyendra Dhar
(61) Patent of Addition to Application Number	:NA	6)GAIKWAD, Anil Uttam
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An electric vehicle having a body frame is described. A battery case is adapted to be movably receivable in a compartment defined by the body frame of the vehicle. The battery case being configured to be operated between a closed position and an open position. A locking device is provided to lock and unlock the battery case in the compartment. The locking device includes a linkage module includes first link and second link. The second link being configured to be operated between a first position and a second position relative to the first link. The linkage module further includes inter-connecting links connecting between the first end and the second end of the second link. In the first position, the second link latches against the battery case to lock battery case within the compartment. The configuration of the locking device ensures that the battery case is securely locked within the compartment. To be published with FIG. 1

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045690 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : FRAGRANCE COMPOSITION AND METHODS THEREOF

(51) International classification	:C11B0009000000, A61Q0013000000, C11D0009020000, A61K0008490000, H01L0029490000	(71) Name of Applicant : 1)DABUR INDIA LIMITED Address of Applicant :8/3, Asaf Ali Road, New Delhi-110002, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SIRDESAI, Amit Umesh
(33) Name of priority country	:NA	2)BANDOPADHYAY, Prasun
(86) International Application No	:NA	3)JADHAV, Suryaji Tanaji
Filing Date	:NA	4)KHAN, Bobby
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT FRAGRANCE COMPOSITION AND METHODS THEREOF The present disclosure provides a fragrance composition comprising a) a polymeric additive in a weight range of 1 to 99% with respect to the composition, preferably in a weight range of 3 to 10% with respect to the composition; b) an adsorbent in a weight range of 1 to 10% with respect to the composition, preferably in a weight range of 1 to 5% with respect to the composition; and c) a fragrance component is in a weight range of 5 to 99% with respect to the composition, preferably in a weight range of 90 to 95% with respect to the composition.

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045770 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR OPTICALLY DETECTING, TRACKING STATUS AND MONITORING ACTIVITIES OF ASSETS

(51) International classification	:G06Q0010080000, G08B0013240000, A61B0005110000, G08B0021040000, H04W0012000000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi-110016, India New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KAR, Subrat
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM AND METHOD FOR OPTICALLY DETECTING, TRACKING STATUS AND MONITORING ACTIVITIES OF ASSETS The present invention relates to a system and method for optically detecting, monitoring and tracking a plurality of assets (112) placed in an un-obstructed line of sight. The system monitors (102) and tracks assets (112) placed in a clear unobstructed line-of-sight of a monitor or set of monitors (102) that are interconnected with each other for transmission of data/ commands/ messages. The system passively monitors (102) single/ multiple assets (112) using an optical method. The monitoring function of the system is configured to track the presence or absence of the assets (112); movement/ amount of movement of the assets (112) and record the nature of these movements of assets (112); and to detect the presence of any non-transparent/partially transparent obstruction placed before the asset(s) and finally to detect any influence imposed locally by any parameter at the asset end on the reflected optical beam. Figure 1

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045372 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A CHARGING PORT INTEGRATED WITH AN ARMREST OF A VEHICLE SEAT

(51) International classification	:B60N0002750000, B60L0053160000, H02J0007000000, G11B0005596000, B60L0053140000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :Mercedesstraße 120, Stuttgart, 70372, Germany. Stuttgart Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Amod Khiste
(33) Name of priority country	:NA	2)Melster Peris
(86) International Application No	:NA	3)Rakesh Reddy Bayyapu
Filing Date	:NA	4)Ashish Bengeri
(87) International Publication No	: NA	5)Ramprasad Annamalai
(61) Patent of Addition to Application Number:	NA	6)Gopinath Srikrishna
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An armrest assembly 100 that integrates a charging port 106 configured to move between a popped out position and a retracted position, is disclosed. The charging port 106 is pivotally held with armrest 120 and, in one embodiment, motive power for movement of the charging port 106 is provided by movement of the armrest 120 between an in-use position and a folded position of the armrest 120. A pulley 112 and a string 114 is used to pull the charging port 106 to the popped-out position, and a spring 110 is provided to pull the charging port to the retracted position within a cavity, when the armrest is moved to the in-use position. An embodiment including a servo motor and a proximity sensor for movement of the charging port 106 is also disclosed.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045373 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A CLUTCH ASSEMBLY FOR VEHICLES

(51) International classification	:G06F0001180000, H05K0007140000, B60R0021217000, G11B0017220000, F28F0009000000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :Mercedesstraße 120, Stuttgart, 70372, Germany. Stuttgart Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ankur Nilajkar
(33) Name of priority country	:NA	2)Sushree Mahapatra
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A clutch assembly 200 is disclosed having a locking mechanism that allows a cover 300 to be removed from housing 400 for servicing. The housing 400 includes a plurality of L-shaped slots 402 and a plurality of housing tabs 408 with apertures 410, located adjacent the slots 402. The cover 300 includes a plurality of cover tabs 302 with apertures 304 located such that, when the cover tabs 302 engage with the L-shaped slots 402 of the cover 300, the cover tabs 302 are positioned adjacent the housing tabs 408. A ring 500 is provided to lock the cover 300 with the housing 400 having a plurality of U-shaped claws 502. The claws 502 include a free leg 506, which engages with apertures 304/410 to lock the cover 300 with the housing 400.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045375 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : GARBAGE COLLECTION SYSTEM

(51) International classification	:G06Q0030020000, B65F0001000000, B65F0001160000, F25D0029000000, E05F0015730000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab- 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Tanvi Arora
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a garbage collection system, comprising chambers 1 developed to be positioned on a ground surface and adapted to collect a specific type of garbage to segregate the garbage, a proximity sensor paired with an imaging unit 2 for measuring distance between a user approaching towards the chamber 1, a motorized lid 3 to allow the user for disposing off the garbage within the chambers 1, a sensing module for detecting presence of metallic objects and type of garbage, an IOT (internet of things) based communication module for transmitting an encrypted cod storing information regarding reward points earned by the user, a computing unit associated with the system for enabling a concerned person for enter details regarding an advertisement that is to be displayed on the chambers 1 and a display panel 4 installed on the chambers 1 for displaying the advertisement.

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045376 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PORTABLE FLOOR CLEANING DEVICE

(51) International classification :B08B0005020000,
A47L0011400000,
F24F0003160000,
A47L0011240000,
A47L0009280000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Chandigarh Group of Colleges
Address of Applicant :Landran Kharar Banur Highway, Sector
112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab-
140307, India. Mohali Punjab India

(72)Name of Inventor :
1)Diviz Singh
2)Dr. Santosh Kumar

(57) Abstract :

A portable floor cleaning device includes a body 1 installed with a push button 2 to enable user to start/stop device, a hollow flexible shaft 3 for enabling user to translate body 1, a conical head 4 for enabling user to clean specific area of floor, a primary blower 12 arranged in a case 6 for rotating in clockwise orientation to generate air flow inside case 6, a nozzle 7 for blowing generated air flow towards user-specified area to blow dust particles accumulated on area, a fan 11 rotating in a counter-clockwise orientation together with blower 12 to generate a negative air pressure in body 1 such that user hover head 4 proximity to dust particles for absorption particles in body 1 through negative pressure to perform floor cleaning, a flexible pipe 9 for transferring generated air from case 6 to nozzle 7 for blowing dust particles from ground surface.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045937 A

(19) INDIA

(22) Date of filing of Application :11/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DISSOLVABLE WOUND HEALING PATCHES FOR DIABETIC FOOT ULCERS

(51) International classification	:A61K0009000000, A61K0009700000, A61B0090900000, A61K0045060000, A61K0036530000	(71) Name of Applicant : 1)Panjab University Address of Applicant :University Institute of Pharmaceutical Sciences, Panjab University, Sector-14, Chandigarh - 160014, India Chandigarh Chandigarh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KAKKAR, Vandita
(33) Name of priority country	:NA	2)KUMARI, Parina
(86) International Application No	:NA	3)JAIN, Shobhit
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to the field of wound healing. The present disclosure particularly relates to a wound healing composition and a novel dissolvable patch comprising at least one nutraceutical and at least one vitamin loaded with nano-based carriers for treatment of chronic wounds, more specifically, diabetic foot ulcers (DFU). The present disclosure also relates to the process for preparing the wound healing composition and the patch, and applications thereof. In particular, the wound healing composition comprises an antioxidant selected from a group comprising curcumin, derivatives of curcumin and tetrahydrocurcumin, or any combination thereof; vitamin; at least one lipid selected from a group comprising polyethylene glycol, propylene glycol monocaprylate type II, stearyl macrogol-32 glycerides, glycerol tristearate, phospholipids, corn oil, arachis oil, oleic acid, glycerol monocaprylocaprate or any combination thereof; at least one phospholipid; and at least one surfactant.

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045942 A

(19) INDIA

(22) Date of filing of Application :11/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SYSTEM FOR A RANGE CHANGE INHIBITOR UNIT

(51) International classification	:B60R0016023000, B60Q0009000000, F16H0063420000, B60T0008170000, B60W0010119000	(71)Name of Applicant : 1)Minda Nabtesco Automotive Private Limited Address of Applicant :MINDA NABTESCO AUTOMOTIVE PVT. LTD., Plot No. 191, Sector 8, Imt-Manesar, Distt. Gurugram, Haryana-122050, India Gurugram Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SRIVASTAVA, Amit
(33) Name of priority country	:NA	2)YADAV, Rahul
(86) International Application No	:NA	3)SINGH, Rishik
Filing Date	:NA	4)SINGH, Dilip
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system (400) for a Range Change Inhibitor (RCI) unit (106). The system (400) may include a relay unit (404) and a control unit (402). The relay unit (404) may be adapted to electrically couple the RCI unit (106) to a power source (410) based on an actuation signal. The control unit (402) may be connected to the RCI unit (106) via the relay unit (404) adapted to supply electric power to the RCI unit (106) via the relay unit (404). The control unit (402) may be adapted to receive an input signal to determine a state of the RCI unit (106), wherein the state is one of an operational state and a non-operational state of the RCI unit (106). The control unit (402) may generate a feedback signal for the relay unit (404) when the state is determined to be the non-operational state.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046006 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHODS AND APPARATUS FOR ESTIMATION OF THE DISTANCE OF THE OBJECTS IN EUCLIDEAN SPACE USING FUSION OF CAMERA POSE INFORMATION AND SCENE PRIOR INFORMATION

(51) International classification	:G06T0007174000, G06T0007730000, G06K0009620000, H04W0072040000, G06K0009320000	(71) Name of Applicant : 1)HL KLEMOVE CORP. Address of Applicant :224, Harmony-ro, Yeonsu-gu, Incheon 22011 Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Rajesh Kumar Kamma
(33) Name of priority country	:NA	2)Jitesh Kumar singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a real-time distance estimation method and apparatus (100) for fish-eye as well as conventional pin-hole cameras. The invention utilizes camera pose information as well as scene prior information in order to estimate distance of the object from the camera (160). Camera pose information is estimated with the help of extrinsic camera calibration, which inherently utilizes intrinsic camera calibration information. Fisheye camera and any other camera model introduces distortion in the acquired input image. Therefore, an additional step of image un-distortion or pixel point undistortion is required. The above additional step is needed in order to make sure that before applying the distance estimation on any input image or its random pixel points; the input image or its pixel points should follow the pin-hole camera model.

No. of Pages : 48 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046041 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR REDUCING MOMENTARY AND CRITICAL MISS DETECTIONS IN SINGLE STAGE OBJECT DETECTORS

(51) International classification	:F41G0003260000, H02M0001420000, H05B0041392000, G01S0013931000, H05B0047100000	(71) Name of Applicant : 1)HL KLEMOVE CORP. Address of Applicant :224, Harmony-ro, Yeonsu-gu, Incheon 22011 Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Arpit Awasthi
(33) Name of priority country	:NA	2)Jitesh Kumar singh
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method and system (100) for reducing momentary and critical miss detections in single stage object detectors are disclosed. With the developments in the field of Computer Vision through Deep Learning, there has been an increased popularity in Autonomous Driving and Parking assist systems in the past decade. The existing deep learning based solutions 10 are branched into two main sub categories – two stage detectors and single stage detector. The two stage detectors are more accurate but slow rendering them useless on real time edge devices where as in comparison single stage detectors are fast and real time but lack accuracy. The present invention proposes to improve the overall performance of a grid-based multi-scale single-stage detector by removing the issue of momentary 15 misses and critical misses (False Negatives) using a novel training pipeline and data augmentation strategy. The proposed invention reduces the False Negatives significantly thereby giving a boost to the model's recall and in turn the model's F1 score.

No. of Pages : 34 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046159 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PARKING BRAKE ACTUATOR OF A VEHICLE

(51) International classification	:B60T0017080000, B60T0013680000, B60T0013740000, B60T0007040000, F16D0065140000	(71)Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza Plot No.2, Nelson Mandela Road Vasant Kunj- Phase -II New Delhi India 110 070 Vasat Kunj Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)KORI, Shishir Kumar
(33) Name of priority country	:NA	2)PUNIA, Aman Dev
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT PARKING BRAKE ACTUATOR OF A VEHICLE The invention relates to a parking brake actuator which is suitable for a vehicle. The parking brake actuator is constructed such that the same can be actuated using a single hand of the rider. Additionally, the construction of the parking brake actuator is simple and uses a minimum number of components. FIGURE 3

No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046195 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A DEVICE FOR MEASURING DYNAMIC CHANGES IN OPTICAL PROPERTIES UNDER DIFFERENT CONDITIONS FOR PHOTOTHERMAL THERANOSTICS

(51) International classification	:G01N0021470000, G01J0003020000, G01N0021170000, A61B0005000000, G01N0021490000	(71)Name of Applicant : 1)Indian Council of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi-110029, India New Delhi Delhi India 2)Council of Scientific and Industrial Research
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Vikas
(33) Name of priority country	:NA	2)KUMAR, Raj
(86) International Application No	:NA	3)SONI, Sanjeev
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The device (100) is disclosed having a diode laser source (102), a white light source (101), a beam combiner (103), a first integrating sphere (105a), and a first detector (107a). The beam combiner (103) is adapted to combine a white light and a laser beam to form a collimated combined beam. The collimated combined beam irradiates a surface of the sample (116) and performs a photothermal interaction with the sample (116). The first integrating sphere (105a) transmits the collimated combined beam to the sample (116). An inner surface of the first integrating sphere (105a) reflects a portion of the beam scattered by the sample (116). The first detector (107a) captures the scattered collimated combined beam coming from the inner surface. The scattered collimated combined beam is indicative of a dynamic change in the optical property in response to the photothermal interaction.

No. of Pages : 31 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046202 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A CRUTCH TIP

(51) International classification	:A61H0003020000, A45B0009040000, A61H0003000000, A63B0021060000, A61B0005110000	(71) Name of Applicant : 1)FUPRO INNOVATION PVT LTD Address of Applicant :FLAT 601 TOWER-17, RAOYAL ESTATE, ZIRAKPUR, Mohali, Punjab, India, 140603 zirakpur Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Nimish Mehra
(33) Name of priority country	:NA	2)Ashish Choudhary
(86) International Application No	:NA	3)Cyril Joe Baby
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a flexible and durable crutch tip 10 that reduces the overall effort required by a user while walking. The crutch tip 10 comprises a curved shaped toe 12, an adapter 116 disposed on the top of the toe 12 and a curved shaped heel 14. The toe 12 having a front surface 102 and a rear surface 104, similarly the heel 14 having a front surface 212 and a rear surface 208. The rear surface 208 of the heel 14 is disposed on the rear surface 104 of the toe 12 such that the toe 12 and the heel 14 are curved in the opposite direction to each other forming the crutch tip 10. The crutch tip 10 configured to absorb any vibration or jerk experienced while walking, thereby providing support to the user. FIG: 4A

No. of Pages : 35 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046203 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A CRUTCH TIP

(51) International classification	:A61H0003020000, A45B0009040000, A61H0003000000, A63B0021060000, A45B0009000000	(71) Name of Applicant : 1)FUPRO INNOVATION PVT LTD Address of Applicant :FLAT 601 TOWER-17, RAOYAL ESTATE, ZIRAKPUR, Mohali, Punjab, India, 140603 ZIRAKPUR Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Nimish Mehra
(33) Name of priority country	:NA	2)Ashish Choudhary
(86) International Application No	:NA	3)Cyril Joe Baby
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a flexible and durable crutch tip 10 that reduces the overall effort required by a user while walking. The crutch tip 10 comprises a curved shaped toe 12, an adapter 116 disposed on the top of the toe 12 and a curved shaped heel 14. Further, an interlocking mechanism attaches the toe 12 and the heel 14 together to form the crutch tip 10 such that the toe 12 and the heel 14 are curved in the opposite direction to each other forming the crutch tip 10. The crutch tip 10 configured to absorb any vibration or jerk experienced while walking, thereby providing support to the user. Fig. 3A

No. of Pages : 40 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046214 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A FUNCTIONALIZED NANOSTRUCTURED LIPID CARRIER FOR ALZHEIMER'S DISEASE

(51) International classification	:A61K0009000000, A61K0009127000, A61K0047140000, B82Y0005000000, A61K0047260000	(71)Name of Applicant : 1)Indian Council of Medical Research Address of Applicant :V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi - 110029, India New Delhi Delhi India 2)Manipal Academy of Higher Education
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)GOPALAN, Divya
(33) Name of priority country	:NA	2)MUTALIK, Srinivas
(86) International Application No	:NA	3)ALEX, Angel. T.
Filing Date	:NA	4)UDUPA, Nayanabhirama
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a nanostructured lipid carrier for the treatment of Alzheimer's disease. More particularly, the present invention provides a functionalized nanostructured lipid carrier comprising lactoferrin-hyaluronic acid (Lf- HA) modified lipid nanoparticles functionalized with a small interfering RNA and a carrier drug for the treatment of Alzheimer's disease. The nanostructured lipid carrier is suitable for intranasal administration and can target multiple pathologies involved in progression of Alzheimer's disease.

No. of Pages : 48 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045377 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ANTI-THEFT WHEEL SECURING DEVICE

(51) International classification	:H02K0007102000, F16D0065020000, B62L0001000000, B60B0027020000, B62K0025020000	(71)Name of Applicant : 1)Chandigarh Group of Colleges Address of Applicant :Landran Kharar Banur Highway, Sector 112, Sahibzada Ajit Singh Nagar, Landran, Mohali, Punjab- 140307, India. Mohali Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Tushar Lakhmani
(33) Name of priority country	:NA	2)Harvinder Singh
(86) International Application No	:NA	3)Dr. Rajdeep Singh
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anti-theft wheel securing device for vehicles, comprising two L-shaped members 1 that base portion 3 of the members 1 are installed on a wheel disc 5 while the upper portion 4 is protruded towards a wheel hub 6, a pair of cavity 7, 8 having a primary and secondary end 7, 8 fabricated on the hub 6 in such a manner that the primary end 7 allows movement of shoe 9 that is mounted within hub 6 whereas secondary end 8 of the cavity 7, 8 accommodates upper portion 4 of the member, upon application of brake by a user, the brake shoe 9 is positioned at the primary end 7 which locks second portion 4 within secondary end 8 till brake is de-actuated which secures wheel disc 5 with hub 6 during application of the brakes and temperature sensor 10 mounted on rim for monitoring temperature of rim.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045391 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD AND A SYSTEM FOR CONTROLLING SPEED OF A VEHICLE

(51) International classification	:B60W0030140000, G05G0001300000, E21C0027020000, F16H0003089000, B60T0008176300	(71)Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No. 2 Nelson Mandela Road, Vasant Kunj- Phase-II New Delhi Delhi India 110070 Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)ROHIT GOYAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD AND A SYSTEM FOR CONTROLLING SPEED OF A VEHICLE Disclosed herein is a method and system for controlling speed of a vehicle. In particular, the method comprises sensing a current speed and a gear position of the vehicle, by a vehicle speed sensor and a gear position sensor respectively, while the vehicle being in motion and a speed limiting (SL) mode activated; and reducing, by an electronic control unit (ECU), vehicle speed from the current speed to a SL mode threshold speed corresponding to the current gear position.

No. of Pages : 18 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045398 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A BATTERY COOLING SYSTEM OF AN ELECTRIC VEHICLE AND A METHOD THEREOF

(51) International classification	:H01M0010613000, H01M0010625000, B60H0001000000, B60L0058260000, B60K0001000000	(71) Name of Applicant : 1)Maruti Suzuki India Ltd. Address of Applicant :Palam Gurgaon Road Gurgaon Haryana India 122015 Gurgaon Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Harshit Pant
(33) Name of priority country	:NA	2)Abhishek Kumar
(86) International Application No	:NA	3)Sandeep Mandal
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A BATTERY COOLING SYSTEM OF A VEHICLE AND A METHOD THEREOF Disclosed herein is a battery cooling system 100 configured to extract heat from the battery cells present in the vehicle. The battery cooling system 100 comprises plurality of battery cells, Phase change material (PCM, 102) and an air-cooling channel 106. The PCM 104 is placed below the plurality of battery cells and the air-cooling channel 106 is provided below the PCM 104. The PCM 104 absorbs heat from the plurality of battery cells and limit temperature of the plurality of battery cells to a threshold limit during discharging of the plurality of battery cells. Further, the PCM 104 releases heat to the air-cooling channel 106 during charging of the plurality of battery cells.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045476 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A MODULAR VEHICLE

(51) International classification :B62D0025140000,
B60R0021360000,
B62D0063020000,
B60R0021233800,
B01F0015000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HERO MOTOCORP LIMITED

Address of Applicant :an Indian Company of The Grand Plaza,
Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New
Delhi 110 070, India. New delhi Delhi India

(72)Name of Inventor :

1)BHARDWAJ Rajat

2)JAIN Anuj

3)AGARWAL Ankit

4)DADHEECH Gaurav

5)DWIVEDI Satyendra Dhar

6)GAIKWAD Anil Uttam

(57) Abstract :

The present disclosure relates to a frontal structure (100) of a modular vehicle (200). The frontal structure (100) comprising a pair of front pillars (21) comprising a left-side pillar (21a) and a right-side pillar (21b) secured to and extending upwardly from a left-side long member (10a) and a right-side long member (10b) of the modular vehicle (200), respectively. A cross member (30) interconnects free ends (21c) the pair of front pillars (21). Further, a windshield panel (40) is movably coupled to at least one of the cross member (30) and the pair of front pillars (21). The windshield panel (40) is configured to be operated between an elevated position and a closed position covering the frontal section (100) of the modular vehicle.

No. of Pages : 29 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045515 A

(19) INDIA

(22) Date of filing of Application :09/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A METHOD AND SYSTEM FOR PROVIDING ENVIRONMENTAL SUSTAINABILITY DATA MODELING FOR SMART CITIES

(51) International classification	:G06Q0050260000, G06Q0010060000, G06N0003080000, G06Q0010040000, G06Q0010100000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA, UTTAR PRADESH, INDIA, 201313 Noida Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Deepak Kumar
(33) Name of priority country	:NA	2)Sukanya Ghosh
(86) International Application No	:NA	3)Sulochana Shekhar
Filing Date	:NA	4)Rina Kumari
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD AND SYSTEM FOR PROVIDING ENVIRONMENTAL SUSTAINABILITY DATA MODELING FOR SMART CITIES The present invention discloses a method and system for providing environmental sustainability data modeling for smart cities. In the present invention, the present invention can significantly examine the relationship variance of the climate because of land use and land cover (LULC) changes that have occurred in the city over the past decades along with forecasting urban growth and spatiotemporal urban expansion. The system and method also illustrated the capacity of advanced technologies processing satellite imageries not only has a high potential for faster detection and cost-effectiveness but also makes a future prediction that allows sufficient preparedness for disaster management authorities, stakeholders, and healthcare communities. Accompanied Drawing [FIG. 1]

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045798 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR DISPLAYING THREE-DIMENSIONAL VIRTUAL APPAREL ON THREE-DIMENSIONAL AVATAR FOR REAL-TIME FITTING

(51) International classification	:A61B0005107000, B24B0049040000, A47J0031440000, F02B0037020000, A61B0090000000	(71)Name of Applicant : 1)VIVIROOMS ECOMM PRIVATE LIMITED Address of Applicant :4 th Floor, ASF Centre, Plot no. 362-363, Udyog Vihar, Phase 4, Sector 18, Gurugram, Haryana 122016, India. Haryana India
(31) Priority Document No	:NA	2)Biocube Technology Inc.
(32) Priority Date	:NA	(72)Name of Inventor :
(33) Name of priority country	:NA	1)Tarunna K Sinha
(86) International Application No	:NA	2)Shruti Agrawal
Filing Date	:NA	3)Shruti Singh
(87) International Publication No	: NA	4)Parvesh Garg
(61) Patent of Addition to Application Number:	NA	5)Jatin Goel
Filing Date	:NA	6)Sanjeet Yadav
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure generally relates to a method and a system for displaying a three-dimensional apparel on a three-dimensional avatar of a user. The method includes receiving a set of data associated with the user and analyzing, using a trained model, the set of data associated with the user. Next, the method includes generating the three-dimensional avatar of the user based on the analysis of the set of data. Next, the method includes receiving at least one input from the user for selection of at least one apparel from a plurality of apparels. Next, the method includes virtually augmenting the selected at least one apparel on the generated three-dimensional avatar of the user. Thereafter, the method includes displaying the generated three-dimensional avatar of the user with the selected at least one apparel in an augmented reality environment along with a plurality of apparel fitting parameters. Figure 2

No. of Pages : 33 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045825 A

(19) INDIA

(22) Date of filing of Application :11/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : HEATING ELEMENT.

(51) International classification :H05B0003140000,
B29C0065000000,
B29C0065340000,
A45D0001040000,
H05B0003260000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)AMEBR JAIN
Address of Applicant :3, FLOOR 52-C, EAST AZAD
NAGAR, OPPOSITE AJIT DARBAR GURUDWARA DELHI-
110051, INDIA Delhi India

(72)Name of Inventor :
1)AMEBR JAIN

(57) Abstract :

ABSTRACT: HEATING ELEMENT The invention aims to provide heating element having an increased operational life and durability. Another principal object of the invention is to provide a heating element having more heat strength, cost effective and more durable. The 'heating element comprises metal pipe; internal electrical resistor; insulator; and plate characterized in that the metal pipe is formed of steel and coated with Teflon.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211045863 A

(19) INDIA

(22) Date of filing of Application :11/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOTUS HANGING INCLUDING TUSSELE , BALL, BEADS

(51) International classification	:A61K0036620000, A47G0033000000, B05D0003020000, B05D0001040000, H04N0001000000	(71)Name of Applicant : 1)KARISHMA PARWAL RATHI Address of Applicant :D12,GOLDEN MAHAK ENCLAVE,MEERA MARG,BANIPARK Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : 1)KARISHMA PARWAL RATHI
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Request to register in Class 11-05 (Articles of adornment – Festive Decorations) . Article is a hanging item consist of ring , artificial beads / Moti , Painted Fiberboard Lotus Cutout , ball ,Tussle Article can be used as backdrop for festival decorations. From Top to Bottom -Article consist of ring at topmost followed by beads then Medium Density Fiberboard (MDF) cut out in Lotus Shape . After MDF cut out there is gotta ball followed by tussle

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052713 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR OBTAINING CUT ELONGATED ELEMENTS

(51) International classification	:B32B0017100000, H04L0005000000, B26D0007060000, H04B0007260000, C03B0011080000	(71) Name of Applicant : 1)Schott AG Address of Applicant :Hattenbergstraße 10, 55122 Mainz (DE) Mainz Germany
(31) Priority Document No	:21197615.4	(72) Name of Inventor :
(32) Priority Date	:20/09/2021	1)WITZMANN, André
(33) Name of priority country	:EPO	2)TRINKS, Ulla
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Herein, a specific method and a specific system for obtaining cut elongated glass elements and a specific bundle comprising cut elongated glass elements are described.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052724 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : THROTTLE GRIP DEVICE

(51) International classification	:B62K0023040000, B60L0015200000, F02D0011020000, F02M0035100000, F02B0061020000	(71)Name of Applicant : 1)ASAHI DENSO CO., LTD. Address of Applicant :2-1, Somejidai 6-chome, Hamakita-ku, Hamamatsu-shi, Shizuoka 434-0046 Japan Japan
(31) Priority Document No	:2021-152436	(72)Name of Inventor : 1)Takeo KUMAZAWA
(32) Priority Date	:17/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

THROTTLE GRIP DEVICE A throttle grip device controls an engine of a vehicle in accordance with a rotation angle of a throttle grip detected by a rotation angle detection unit, a base end portion of the throttle grip has a first flange region portion and a second flange region portion formed over a predetermined range in a circumferential direction, the first flange region portion and the 5 second flange region portion are respectively formed at positions offset by a predetermined dimension with respect to an axial direction of the throttle grip, and the first support portion and the second support portion are formed so as to protrude at positions corresponding to the first flange region portion and the second flange region portion, respectively.

No. of Pages : 33 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052778 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : MULTI-VIEW VIDEO CODEC

(51) International classification	:H04N0007180000, G06T0003400000, G06F0011200000, H04N0021234300, G06F0011140000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/245,058	(72) Name of Inventor :
(32) Priority Date	:16/09/2021	1)YAEGER, Matthew J.
(33) Name of priority country	:U.S.A.	2)COLE, David Michael
(86) International Application No	:NA	3)BUCKNER, Benjamin D.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MULTI-VIEW VIDEO CODEC Encoding an image stream may include receiving an image stream with an original image resolution; generating a plurality of copies of the image stream with the original image resolution; encoding, for each copy of the plurality of copies of the image stream, the copy of the image stream to generate an encoded copy of the image stream, wherein the encoded copy of the image stream comprises a first region having a first image resolution and a second region having a second image resolution, wherein each encoded copy of the plurality of encoded copies of the image stream has a different first region, and providing, to a playback device, at least one encoded copy of the plurality of encoded copies of the image stream.

No. of Pages : 42 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202212074409 A

(19) INDIA

(22) Date of filing of Application :22/12/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SPEED DECELERATION SYSTEM OF VEHICLE

(51) International classification	:B62L0003080000, B60K0035000000, B60W0050140000, B66B0001320000, B60T0008280000	(71)Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi 110 070, India New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SHEKHAWAT, Deependra Singh
(33) Name of priority country	:NA	2)NAGAR, Ashish
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:201811027657	
Filed on	:23/07/2018	

(57) Abstract :

ABSTRACT SPEED DECELERATION SYSTEM OF VEHICLE A speed deceleration system (130) of a vehicle (100) is provided. The speed deceleration system (130) comprises a front brake unit (132), a rear brake unit (134), a 5 first force transmitting member (148) having an inner wire (154) and outer sheath (152), and a brake linkage mechanism (145). The brake linkage mechanism (145) is configured to distribute brake operating force to the front brake unit (132) and the rear brake unit (134). The brake linkage mechanism (145) comprises a first brake link (160), a biasing member (165), a revolute pin member (164) and a second brake link (162). The revolute 10 pin member (164) along with the outer sheath (152) is configured to rotate with respect to the second brake link (162) so as to reduce friction between the outer sheath (152) and inner wire (154)

No. of Pages : 40 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202212074418 A

(19) INDIA

(22) Date of filing of Application :22/12/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VALIDATION SYSTEM OF VEHICLE

(51) International classification	:G06K0019077000, H04M0003420000, G01N0027416000, H04N0021418000, G07B0015020000	(71) Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi 110 070, India New Delhi Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Ajay
(33) Name of priority country	:NA	2)YADAV, Pankaj
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:201811041492	
Filed on	:02/11/2018	

(57) Abstract :

VALIDATION SYSTEM OF VEHICLE a validation system (300) of a vehicle (100) having a vehicle control unit (250) is provided. The vehicle control unit (250) is adapted to: receive one or more inputs from a second switch (172), receive a transition input following the one or more input, from a first switch (170), compile the one or more inputs second switch (172) received before the transition input of the first switch (170) to form an input digit, compile the input digits after receiving predetermined number of the transition input to form an input code, compare the input code with the predefined starting code stored in the vehicle control unit (250) of the vehicle (100), and enable access to operational feature of the vehicle (100). Figure 3 Figure

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202212074726 A

(19) INDIA

(22) Date of filing of Application :22/12/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A BIOREACTOR WITH A POROUS FLOATING SUPPORT FOR GROWING A BIOLOGICAL MATERIAL

(51) International classification	:C12M0001000000, C12M0003000000, C12M0001120000, C12M0001340000, F03D0013250000	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Dept. of Biochemical Engineering & Biotechnology, Indian Institute of Technology, Hauz Khas, New Delhi 110016, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)SRIVASTAVA, Ashok Kumar
(33) Name of priority country	:NA	2)BISARIA, Virendra Swarup
(86) International Application No	:NA	3)SRIVASTAVA, Smita
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:148/DEL/2010	
Filed on	:27/01/2010	

(57) Abstract :

The present subject matter relates to a bioreactor (1) for growing a biological material. The bioreactor (1) comprises a closed sterile vessel (2) and a porous supporter (3) horizontally positioned in the vessel (2) and maintaining a head space (4) comprising a predefined volume of air above the supporter (3). The porous supporter (3) floats on a nutrient medium (5), and the biological material grows on the supporter (3). The bioreactor (1) further comprises a sparger (6) positioned in the vessel (2) and a shaft (7) fixed with an impeller (8) at an end thereof, positioned in the vessel (2). The shaft (7) rotates the impeller (8) in the nutrient medium (5) to generate radial and axial motion of the medium (5), and the impeller (8) is positioned in the vessel (2) at a predetermined distance from the sparger (6). The present subject matter further relates to a process for production of Azadirachta hairy root culture for extraction of Azadirachtin in the bioreactor (1).

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053724 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR TEMPERATURE SENSING USING THERMOPILE INTEGRATED WITH RIGID PRINTED CIRCUIT BOARD

(51) International classification	:A61B0005010000, G01K0007420000, G01J0005120000, G01K0001160000, G01K0017200000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,659	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)CLEMENTS, James C.
(33) Name of priority country	:U.S.A.	2)HOANG, Lan Hoang
(86) International Application No	:NA	3)ZHANG, Leilei
Filing Date	:NA	4)KO, Jacky G.
(87) International Publication No	: NA	5)HAIDRI, Jafir A.
(61) Patent of Addition to Application Number:	:NA	6)CHU, Xinsheng
Filing Date	:NA	7)MEHRA, Saahil
(62) Divisional to Application Number	:NA	8)TADELE, Wegene H.
Filing Date	:NA	9)BUCHHOLZ, Jeffrey W.
		10)TANG, Sherry
		11)KARAKI, Habib S.

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR TEMPERATURE SENSING USING THERMOPILE INTEGRATED WITH RIGID PRINTED CIRCUIT BOARD Robust estimation of temperatures inside and outside a device can be achieved using one or more absolute temperature sensors optionally in conjunction with thermopile heat flux sensors. Thermopile temperature sensing systems can measure a temperature gradient across two locations within the device, to estimate absolute temperature at locations that are impractical to measure using absolute temperature sensors. Using heat flux models associated with the device, the thermopile temperature sensing system can be used to estimate temperature associated with objects that contact an outer surface of the device, such as a user's skin temperature. Additionally, the thermopile temperature sensing system can be used to estimate ambient air temperature. Within a device, temperature measurements from the thermopile temperature sensors can be used to compensate sensor measurements, such as when the accuracy or reliability of a sensor varies with temperature.

No. of Pages : 123 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052780 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY PACK HOUSING

(51) International classification	:H01M0002100000, H01M0002200000, H01M0002020000, H01M0010420000, H01M0010058000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:17/448,756	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)ERB, Dylan
(33) Name of priority country	:U.S.A.	2)ANANDARAJAH, Nivay
(86) International Application No	:NA	3)CAULK, Abraham B.
Filing Date	:NA	4)CLARABUT, Alexander J.
(87) International Publication No	: NA	5)LI, Yu-Hung
(61) Patent of Addition to Application Number	:NA	6)MALEY, Evan D.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT BATTERY PACK HOUSING Battery packs according to some embodiments of the present technology may include a first end beam and a second end beam. The battery packs may include a first side beam and a second side beam each extending between the first end beam and the second end beam. The battery packs may include a base. The first end beam, the second end beam, the first side beam, the second side beam, and the base may be welded along each interface between each component. The battery packs may include a plurality of battery cells disposed between the first side beam and the second side beam. Each battery cell of the plurality of battery cells may be separated from an adjacent battery cell by an interface material. The battery packs may include a lid coupled with a surface of each battery cell of the plurality of battery cells facing the lid. To be published with Fig.1

No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052783 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRONIC DEVICES WITH DIFFRACTIVE COATINGS

(51) International classification	:C03C0017420000, B42D0025373000, H05K0005020000, H01L0031023600, G02B0005020000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,177	(72) Name of Inventor : 1)WILSON, James R
(32) Priority Date	:24/09/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ELECTRONIC DEVICES WITH DIFFRACTIVE COATINGS An electronic device may include a housing and a display mounted to the housing. The housing may have a rear wall, a front wall that forms a display cover layer, and sidewalls. A coating may be formed on a portion of the housing. The coating may include a diffractive layer having a textured surface that diffracts incoming light to form at least part of a spectral rainbow on an outer surface of the housing. The textured surface may have pits and bumps in any suitable shape and pattern. The coating may include a thin-film interference layer that increases an intensity of the spectral rainbow. The thin-film interference layer may be interposed between an ink layer and the diffractive layer. The diffractive layer may be a reflective diffractive layer that reflects ambient light or a transmissive diffractive layer that transmits light from a light source in the electronic device.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052795 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRICAL COMPONENT SUPPORT STRUCTURE

(51) International classification	:H05K0007020000, F16C0009020000, B01D0053620000, B60N0002680000, H02K0007180000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-159363	(72) Name of Inventor :
(32) Priority Date	:29/09/2021	1)Fumiya AKASAKA
(33) Name of priority country	:Japan	2)Tatsuya KISO
(86) International Application No	:NA	3)Akihiro OBARA
Filing Date	:NA	4)Hidetoshi KATO
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ELECTRICAL COMPONENT SUPPORT STRUCTURE 5 There is provided an electrical component support structure capable of protecting an electrical component against vehicle vibration. A cable (9B) connected to a cable connection portion (9A) extends from a tray (10) in a cable extension direction, the tray (10) has, at an end portion on a vehicle rear side in a bottom surface (11), a wall surface (13) which extends toward a vehicle upper side, and a support member (41) 10 which is connected to the wall surface (13) and a vehicle body (2) such that the wall surface (13) is supported by the vehicle body (2) is provided. Electrical components are composed of an inverter (9) and a battery (8), and the support member (41) is connected to the wall surface (13) in a region where the battery (8) and the wall surface (13) overlap in a vehicle front-rear direction.

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052797 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TENSION APPLICATION DEVICE

(51) International classification	:F16H0007080000, B25B0001240000, F16J0015323600, G01R0001040000, B24B0037200000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan Japan
(31) Priority Document No	:2021-159930	(72)Name of Inventor : 1)Makoto HARADA
(32) Priority Date	:29/09/2021	2)Ruri NAKASHIMA
(33) Name of priority country	:Japan	3)Yuhei MURAKI
(86) International Application No	:NA	4)Tepei HAKAMATA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT TENSION APPLICATION DEVICE [Problem] To apply tension to a drive force transmitting member effectively in a tension application device. [Solution] The tension application device includes: a slide contact member (31) coming into slidable contact with a drive force transmitting member (22) of an endless type, the drive force transmitting member (22) connecting a driving shaft (11) and a driven shaft (21) to each other; and a pressing member (32) pressing the slide contact member (31) and applying tension to the drive force transmitting member (22), the slide contact member (31) has a bar shape extending along a traveling direction (D) of the drive force transmitting member (22) and has surface contact with the drive force transmitting member (22) along the traveling direction (D), a pressing force transmitting member (33) transmitting a pressing force of the pressing member (32) to the slide contact member (31) is provided, and the pressing force transmitting member (33) is pressed by the pressing member (32), swings, and presses the slide contact member (31). To be published with FIG. 2

No. of Pages : 46 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211046652 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : POST-FUNCTIONALIZED METAL ORGANIC FRAMEWORK AND ITS COMPOSITE POLYMER BEADS FOR SEPARATION OF RARE EARTH METAL

(51) International classification :C22B0059000000,
B01J0020220000,
B01J0020300000,
B01J0020280000,
B01D0067000000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860)
Address of Applicant :House No. Anusandhan Bhawan, 2 Rafi Marg Street Rafi Marg City New Delhi State Delhi Country India
Pin code 110 001 New Delhi Delhi India

(72)Name of Inventor :
1)Shivendra Sinha
2)Devabrata Mishra
3)Kamla Kanta Sahu
4)Saurabh Shekhar
5)Archana Agarwal

(57) Abstract :

Abstract POST FUNCTIONALIZED METAL ORGANIC FRAMEWORK AND ITS COMPOSITE POLYMER BEADS FOR SEPARATION OF RARE EARTH METAL The present invention relates to a method for synthesizing metal organic framework with polydentate functional group coordinated to metal nodes and its immobilization in polymer as MOF/polymer beads via phase inversion for application in adsorption of rare earth metal from aqueous solution under static and dynamic filtration mode.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054740 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : THIN-FILM TRANSISTOR ARRAY SUBSTRATE AND DISPLAY DEVICE

(51) International classification	:H01L0027120000, H01L0029786000, G02F0001136800, H01L0029490000, G02F0001136200	(71)Name of Applicant : 1)LG DISPLAY CO., LTD Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0131187	(72)Name of Inventor :
(32) Priority Date	:01/10/2021	1)Jeong, ChanYong
(33) Name of priority country	:Republic of Korea	2)Ok, KyungChul
(86) International Application No	:NA	3)Noh, Jiyong
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

THIN-FILM TRANSISTOR ARRAY SUBSTRATE AND DISPLAY DEVICE A thin-film transistor array substrate (SUB) and a display device (100) are disclosed. A semiconductor layer (540) includes a channel portion (543), a first 5 conductorized portion (541) on a first side of the channel portion (543) and including a first main conductorized portion (541M) and a first sub-conductorized portion (541S), and a second conductorized portion (542) on a second side of the channel portion (543) and including a second main conductorized portion (542M) and a second subconductorized portion (542S). A gate insulating film (GI) is on the channel portion 10 (543). A first auxiliary electrode (551) is on the first main conductorized portion (541M). A first electrode (510) is on the first auxiliary electrode (551). A second auxiliary electrode (552) is on the second main conductorized portion (542M). A second electrode (520) is on the second auxiliary electrode (552). A third electrode (530) is on the gate insulating film (GI) and overlapping the channel portion (543). 15 Each of the first auxiliary electrode (551) and the second auxiliary electrode (552) contains a conductive oxide.

No. of Pages : 69 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054741 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : HIGH-VOLTAGE CIRCUIT DISCONNECTION

(51) International classification	:H05K0001020000, H01H0085000000, G01R0031500000, B60L0003000000, H05K0001030000	(71)Name of Applicant : 1)Schneider Electric Industries SAS Address of Applicant :35 rue Joseph Monier, 92500 RUEIL- MALMAISON - France France
(31) Priority Document No	:EP21382885.8	(72)Name of Inventor : 1)PEREZ QUESADA, Juan Carlos
(32) Priority Date	:01/10/2021	
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Exemplary embodiments comprise a device for connecting and disconnecting a high5 voltage circuit, comprising a first main terminal and a second main terminal, a first intermediate terminal connected to the first main terminal by a first impedance, a first arc quenching chamber arranged between the first intermediate terminal and the first main terminal, a second intermediate terminal connected to the first intermediate terminal by a second impedance, the first intermediate terminal being connected in 10 series between the first main terminal and the second intermediate terminal, a second arc quenching chamber arranged between the first intermediate terminal and the second intermediate terminal, and a mobile armature making it possible to connect, in the disconnection direction, the second main terminal on the one hand and, on the other hand and in succession, the first main terminal, the first 15 intermediate terminal and the second intermediate terminal.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054811 A

(19) INDIA

(22) Date of filing of Application :24/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM FOR REAL-TIME MONITORING AND CONTROL OF BOT OPERATIONS

(51) International classification :H04M0003510000,
G06N0020000000,
G06N0005040000,
G06Q0030000000,
G06N0005020000

(31) Priority Document No :17/511,081

(32) Priority Date :26/10/2021

(33) Name of priority country :U.S.A.

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)AVAYA MANAGEMENT L.P.
Address of Applicant :2605 Meridian Parkway, Suite 200,
Durham, North Carolina 27713, United States of America U.S.A.

(72)Name of Inventor :
1)YOUNG, John A.
2)KLEMM, Reinhard P.

(57) Abstract :

Artificial intelligence (AI) is often utilized for conducting an interaction with a human, such as a customer of a business. While AI agents may successfully interact with a customer to complete a particular task, in some circumstances, an interaction may be beyond the ability of the AI agent. As a result, supervisor may be presented with indicia of an interaction and provide an input, after the input the AI agent may be able to resume the interaction to a successful conclusion. The input may be to modify an AI agent's behavior or provide a particular input as a portion of the interaction with the customer. The AI agent receives or monitors the input and incorporates such inputs into a subsequent training session to alleviate the need for subsequent human involvement if a similar interaction occurs in in the future.

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053725 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR TEMPERATURE SENSING USING THERMOPILE INTEGRATED WITH FLEXIBLE CIRCUIT

(51) International classification	:A61B0005010000, G01K0007420000, G01J0005120000, G01K0001160000, G01K0017200000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,659	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)TADELE, Wegene H.
(33) Name of priority country	:U.S.A.	2)TANG, Sherry
(86) International Application No	:NA	3)BUCHHOLZ, Jeffrey W.
Filing Date	:NA	4)CLEMENTS, James C.
(87) International Publication No	: NA	5)HOANG, Lan Hoang
(61) Patent of Addition to Application Number:	NA	6)ZHANG, Leilei
Filing Date	:NA	7)KO, Jacky G.
(62) Divisional to Application Number	:NA	8)HAIDRI, Jafir A.
Filing Date	:NA	9)CHU, Xinsheng
		10)MEHRA, Saahil
		11)KARAKI, Habib S.

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR TEMPERATURE SENSING USING THERMOPILE INTEGRATED WITH FLEXIBLE CIRCUIT Robust estimation of temperatures inside and outside a device can be achieved using one or more absolute temperature sensors optionally in conjunction with thermopile heat flux sensors. Thermopile temperature sensing systems can measure a temperature gradient across two locations within the device, to estimate absolute temperature at locations that are impractical to measure using absolute temperature sensors. Using heat flux models associated with the device, the thermopile temperature sensing system can be used to estimate temperature associated with objects that contact an outer surface of the device, such as a user's skin temperature. Additionally, the thermopile temperature sensing system can be used to estimate ambient air temperature. Within a device, temperature measurements from the thermopile temperature sensors can be used to compensate sensor measurements, such as when the accuracy or reliability of a sensor varies with temperature.

No. of Pages : 133 No. of Claims : 67

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053758 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLE RIDING VEHICLE

(51) International classification	:B62J0099000000, B62K0011040000, B62M0009160000, B60K0015030000, B68C0001020000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556, Japan
(31) Priority Document No	:2021-162292	(72) Name of Inventor :
(32) Priority Date	:30/09/2021	1)MINE Keigo
(33) Name of priority country	:Japan	2)MAEDA Rui
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a saddle riding vehicle suppressing widening in the vehicle width direction. [Solution] A side cowl (33) covering a lateral side of a vehicle body is provided, the side cowl (33) includes an inner cowl (50) and an outer cowl (40), the outer cowl (40) covering the outside of the inner cowl (50), the inner cowl (50) includes an opening (51), and a reserve tank (70) is arranged in the opening (51). [Selected Drawing] FIG. 2

No. of Pages : 28 No. of Claims : 6

(54) Title of the invention : SADDLE RIDING VEHICLE

(51) International classification	:B62J0099000000, B62K0011040000, B62M0009160000, B60K0015030000, B68C0001020000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556, Japan
(31) Priority Document No	:2021-162290	(72) Name of Inventor :
(32) Priority Date	:30/09/2021	1)MINE Keigo
(33) Name of priority country	:Japan	2)MAEDA Rui
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a saddle riding vehicle that can easily change the shape of a knee grip and can enhance rigidity of a knee grip portion by forming the knee grip portion in a cowl portion. [Solution] A body frame (11) including at least a main frame, and a side cowl (40) mounted to the main frame and covering a lateral side of a vehicle body are provided, a knee grip portion (60) with which a knee of an occupant comes into contact is formed at a rear portion of the side cowl (40), and the side cowl (40) has a shape of heading from an outside to an inside in the vehicle width direction from a front of the side cowl (40) toward the knee grip portion (60). [Selected Drawing] FIG. 2

No. of Pages : 32 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053771 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : FIXED CONNECTOR AND CONNECTOR ASSEMBLY INCLUDING SAME

(51) International classification	:H01R0012700000, B65D0083000000, G02B0006120000, H01L0023367000, G02F0001134500	(71)Name of Applicant : 1)GigaLane Co., Ltd. Address of Applicant :61, Dongtansandan 10-gil, Dongtan- myeon, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0126269	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)JUNG, Kyung-hun
(33) Name of priority country	:Republic of Korea	2)SONG, Hwa-yoon
(86) International Application No	:NA	3)JUNG, Hee Seok
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a fixed connector including a body fixedly inserted into a substrate, a signal pin having one side inserted into the body and the other side extending from the one side to be disposed on the substrate, and a dielectric coupling the signal pin and the body, wherein a portion of the signal pin has an L shape to be in contact with the substrate, and the portion of the signal pin is exposed to an outside of the body.

No. of Pages : 43 No. of Claims : 10

(54) Title of the invention : ELECTRICITY DISTRIBUTION SYSTEM FOR A DOMESTIC INSTALLATION COMPRISING MULTIPLE ELECTRICAL SOURCES

(51) International classification	:H02J0013000000, H04B0003540000, H02J0003140000, H02J0003320000, H01F0030120000	(71)Name of Applicant : 1)Schneider Electric Industries SAS Address of Applicant :35 rue Joseph Monier, 92500 Rueil Malmaison – FRANCE France
(31) Priority Document No	:FR 2110100	(72)Name of Inventor : 1)LEBEAU, Bernard
(32) Priority Date	:24/09/2021	2)DU PORT DE PONCHARRA, Etienne
(33) Name of priority country	:France	3)BUR, Emmanuel
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Electricity distribution system for a domestic installation comprising multiple electrical sources This electrical distribution system (30), for distributing electrical currents between an electrical distribution network and a domestic distribution installation, comprises: - a multi-source electrical switching unit (38) allowing or preventing the circulation of electrical currents in two electrical conduction paths each comprising a plurality of electrical conductors, and - an electrical connection device (36) connected at the output of the electrical switching unit, the connection device being configured to prolong the two electrical conduction paths at the output of the switching unit. The electrical switching unit (38) is configured to connect, on a first input, a first of the two electrical conduction paths to an electrical distribution network (32), the electrical switching unit being configured to connect, on its second input, the second of the two electrical conduction paths to an auxiliary electrical source (34). The connection device (36) is configured to connect each electrical conduction path to one or more electrical loads (40, 42, 44) at the output of the electrical switching unit. The electrical connection device (36) comprises an interconnection point in which the corresponding electrical conductors of each electrical conduction path are connected to one another, the multi-source electrical switching unit (38) forming a single disconnection point capable of simultaneously disconnecting the electrical sources connected to the first input and to the second input from the rest of the electrical distribution network (30).

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052356 A

(19) INDIA

(22) Date of filing of Application :13/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CHARGING/DISCHARGING CONTROL SYSTEM

(51) International classification	:H01M0010613000, B60L0058260000, H01M0010625000, H02J0007000000, H01M0010440000	(71) Name of Applicant : 1)Suzuki Motor Corporation Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Minami-ku, Hamamatsu Japan
(31) Priority Document No	:2021-145948	(72) Name of Inventor :
(32) Priority Date	:08/09/2021	1)HASHIBA, Ryo
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Object] It is to provide a charging/discharging control system capable of preventing deterioration of a battery due to high temperature and high SOC. [Solution] A charging/discharging control system includes: a battery sensor 41 to detect temperature of a battery 4; a cooling unit 5 to cool the battery with electric power supplied therefrom; and a control unit 9 to control the cooling unit using SOC of the battery and SOC upper limit, the control unit driving the cooling unit if the SOC of the battery exceeds the SOC upper limit, the SOC upper limit being set to a lower value as the temperature of the battery becomes higher.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052357 A

(19) INDIA

(22) Date of filing of Application :13/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INFORMATION PROVIDING DEVICE

(51) International classification :H04M0015000000,
A61K0031522000,
B60L0058120000,
G08G0001160000,
H02J0007000000
(31) Priority Document No :2021-145949
(32) Priority Date :08/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Suzuki Motor Corporation

Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Shizuoka Japan

(72)Name of Inventor :

1)SHIONO, Fumiya

(57) Abstract :

[Object] This invention provides an information providing device capable of accurately providing information on a usage status of a charging spot or a waiting period after arriving at the charging spot. [Solution] An information providing device includes: a charging spot detection unit 41 to detect a charging spot 110; a time detection unit 42 to calculate an arrival time at which a vehicle 1 arrives at the charging spot 110; a charging spot usage determination unit 43 to determine whether or not the charging spot 110 is currently used; a charging completion time prediction unit 44 to calculate a charging required period and a charging completion time of another vehicle 120 currently using the charging spot 110; an occupant absence period measurement unit 45 to measure an occupant absence period for which an occupant of the another vehicle 120 is absent therefrom at the charging spot 110; and a control unit 4 to set, when the charging spot 110 is currently used by the another vehicle 120, a waiting period to be obtained by subtracting the arrival time from the charging completion time, the control unit 4 adding an additional period to the waiting period to thereby set the added waiting period if the occupant absence period exceeds a first predetermined ratio with respect to the calculated charging required period.

No. of Pages : 26 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052466 A

(19) INDIA

(22) Date of filing of Application :14/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRICAL COMPONENT SUPPORT STRUCTURE

(51) International classification	:H05K0007020000, F16C0009020000, B01D0053620000, B60N0002680000, H02K0007180000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-159364	(72) Name of Inventor :
(32) Priority Date	:29/09/2021	1)Fumiya AKASAKA
(33) Name of priority country	:Japan	2)Tatsuya KISO
(86) International Application No	:NA	3)Akihiro OBARA
Filing Date	:NA	4)Hidetoshi KATO
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ELECTRICAL COMPONENT SUPPORT STRUCTURE 5 A cable (9B) connected to a cable connection portion (9A) extends from a tray (10) in a cable extension direction. The tray (10) has, at an end portion in the cable extension direction in a bottom surface (11), a wall surface (12) which extends toward a vehicle upper side, and the wall surface (12) has a notch (12A) which allows the cable (9B) to pass in the cable extension direction. The notch (12A) has side edge portions 10 (12B, 12C) which extend in a vehicle up-down direction, a lower edge portion (12D) which extends in a direction orthogonal to the side edge portions (12B, 12C), and sloped edge portions (12E, 12F) which extend aslope so as to communicate with the side edge portions (12B, 12C) and the lower edge portion (12D).

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052554 A

(19) INDIA

(22) Date of filing of Application :14/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : WORK ASSIGNMENT INTEGRATION

(51) International classification :H04M0003510000,
G06N0020000000,
G06N0005020000,
H04L0012701000,
G06N0005040000

(31) Priority Document No :17/488,133

(32) Priority Date :28/09/2021

(33) Name of priority country :U.S.A.

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Avaya Management L.P.

Address of Applicant :2605 Meridian Parkway, Suite 200,
Durham, North Carolina 27713, U.S.A. Durham U.S.A.

(72)Name of Inventor :

1)SMITH, Stephen D.

2)MILLAN, Stephen

(57) Abstract :

Contact centers often simultaneously utilize two or more entities for making routing decisions to match a caller with an agent. The entities utilize discrete methodologies, such as algorithmic versus artificial intelligence (AI) based decision making. Algorithmic decision-making components provide robustness and ensuring the very best match, of all possible matches, is made. AI-based decision making provides a decision based on learning/training and is often faster. The decisions reached are expected to be identical. However, the management and data reporting from two very different systems can produce errors and increase overhead. Accordingly, a management component is provided to harmonize the inputs and outputs of these disparate systems to comport to a single standard.

No. of Pages : 46 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052840 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONTROL APPARATUS FOR VEHICLE

(51) International classification	:B60W0030160000, B60K0031000000, B60W0050140000, B60W0030120000, B60W0010115000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611 Japan
(31) Priority Document No	:2021-171027	(72)Name of Inventor : 1)Tatsuro EBATA
(32) Priority Date	:19/10/2021	2)Akira SATO
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem to be Solved] To improve a shift feeling in a curved section during ACC driving in a vehicle including a step-type automatic transmission. [Solution] In a control apparatus for a vehicle which includes a step-type automatic transmission and has an ACC function for causing a vehicle to run at a set vehicle speed when no vehicle ahead is present in a driving lane of the vehicle, and making an acceleration request/deceleration request for causing the vehicle to run while following a vehicle ahead with maintaining a set inter-vehicular time with respect to the vehicle ahead when the vehicle ahead is present in the driving lane of the vehicle, and a curve driving assist function for making a deceleration request when entry into a curve having a predetermined curvature or greater is detected and a curve driving condition is satisfied, the control apparatus is configured so as to restrict an upper limit of a shift gear of the automatic transmission to 1 gear if the curve driving condition is satisfied during running based on the ACC function. [Selected Drawing] Figure 2

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052853 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR DETERMINING A CHARACTERISTIC VARIABLE OF A SOLENOID VALVE AND TRAINING METHOD

(51) International classification :B60T0008360000,
F02D0041200000,
F16K0031060000,
G06K0009620000,
G06N0003080000

(31) Priority Document No :102021210321.9

(32) Priority Date :17/09/2021

(33) Name of priority country :Germany

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)ROBERT BOSCH GMBH
Address of Applicant :Postfach 30 02 20, 70442 Stuttgart,
Germany Germany

(72)Name of Inventor :
1)NEUFELD, Marc

(57) Abstract :

ABSTRACT METHOD FOR DETERMINING A CHARACTERISTIC VARIABLE OF A SOLENOID VALVE AND TRAINING METHOD The present subject matter relates to a method for determining an opening and/or closing of a throughflow opening (150) of a solenoid valve (100) (characteristic variable at which a magnet coil (111) of the solenoid valve (100) is energized in order to lift a magnet armature (120) to open the throughflow opening (150) for a fluid, wherein a course of a current (I) is determined in the magnet coil during operation of the solenoid valve (100), and wherein using a pattern recognition method (430) based on artificial intelligence, the characteristic variable(s) is/are determined on the basis of at least one section of the course or a course derived therefrom with the aid of a neural network. The present subject matter also relates to a method for applying and training a pattern recognition method (430) based on artificial intelligence. To be Published with Figure 4

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052860 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD OF BUILDING A HYBRID QUANTUM-CLASSICAL COMPUTING NETWORK

(51) International classification	:G06F0030220000, G06F0015173000, G06Q0010040000, H04L0029060000, C12M0001220000	(71)Name of Applicant : 1)BULL SAS Address of Applicant :Rue Jean JaurèsLes Clayes-sous-Bois, 78340, France France
(31) Priority Document No	:21306280.5	(72)Name of Inventor :
(32) Priority Date	:16/09/2021	1)ALLOUCHE, Cyril
(33) Name of priority country	:EUROPEAN UNION	2)AYRAL, Thomas
(86) International Application No	:NA	3)MARTIEL, Simon
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD OF BUILDING A HYBRID QUANTUM-CLASSICAL COMPUTING NETWORK ABSTRACT This invention relates to a method of building a hybrid quantum-classical computing network, comprising: a first step of transformation of an application composed of services into a Petri net including both Petri places (8, 9) and Petri transitions (81, 82, 91-94) between said Petri places (8, 9), any said Petri place (8, 9) corresponding to: either a first type building block corresponding to any quantum processing unit (8) which processes a job into a result, or a second type building block corresponding to any plugin unit (9), which converts a job into another job and/or a result into another result, any Petri transition (81, 82, 91-94) corresponding to any link between two building blocks (8, 9), all said links (81, 82, 91-94) being formatted so as to make any building block (8, 9) interchangeable, a second step of transformation of said Petri net into a hybrid quantum-classical computing network, replacing any building block by its corresponding unit (8, 9), interconnecting all said corresponding units (8, 9) together by replacing any Petri transition (81, 82, 91-94) by a connection simply transmitting without processing nor converting.

No. of Pages : 35 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052861 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : COMPUTING SYSTEM FOR EXECUTING QUANTUM PROGRAMS ON ANALOG AND DIGITAL QUANTUM COMPUTERS

(51) International classification	:G06N0010000000, B82Y0010000000, G06N0007000000, A61B0006000000, G06Q0010060000	(71)Name of Applicant : 1)BULL SAS Address of Applicant :Rue Jean JaurèsLes Clayes-sous-Bois, 78340, France France
(31) Priority Document No	:21306279.7	(72)Name of Inventor : 1)ALLOUCHE, Cyril
(32) Priority Date	:16/09/2021	2)AYRAL, Thomas
(33) Name of priority country	:France	3)MARTIEL, Simon
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a computing system (10) comprising a classical computer (11), an analog quantum computer (13) and a digital quantum computer (12), said computing system comprising: - a digital quantum processing, DQP, module (22) comprising an input interface for receiving a quantum circuit to be executed by the digital quantum computer; - an analog quantum processing, AQP, module (23) comprising an input interface for receiving a temporal schedule to be executed by the analog quantum computer; - a digital to analog converting, DAC, module (24) comprising an input interface for receiving a quantum circuit and an output interface for outputting a temporal schedule; wherein a same format is used on the input interfaces of both the DQP module and the DAC module (24), and a same format is used on both the output interface of the DAC module (24) and the input interface of the AQP module.

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054962 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : EXCHANGEABLE OPTIC FIBER CONNECTOR ASSEMBLY

(51) International classification :G02B0006380000,
G06F0001180000,
H05K0005020000,
G06F0001160000,
H01R0012700000

(31) Priority Document No :110211403

(32) Priority Date :28/09/2021

(33) Name of priority country /region :Taiwan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)ACON OPTICS COMMUNICATIONS INC.

Address of Applicant :5F., NO. 4, ALLEY 9, LANE 45,
BAOXING RD., XINDIAN DIST., NEW TAIPEI CITY,
TAIWAN

(72)Name of Inventor :

1)WU, JIA RONG

2)HSU, TSUNG YAO

(57) Abstract :

An exchangeable optic fiber connector assembly (100) includes optic fiber connectors (110, 120) and a switching structure (130). The switching structure (130) has guiding slots (T1, T2). The optic fiber connectors (110, 120) respectively pass through the guiding slots (T1, T2) to be movable and rotatable along the corresponding guiding slots (T1, T2). The switching structure (130) further has a plurality of second locking portions (B1, B2, B3, B4) and a plurality of second stopping portions (C1, C2, C3, C4) disposed at two opposite ends of each guiding slot (T1, T2). Each optic fiber connector (110, 120) is locked with one of the second locking portions (B1, B2, B3, B4) through the first locking portion (111, 121), and the second stopping portion (C1, C2, C3, C4) next to the locked second locking portion (B1, B2, B3, B4) is located on a moving path of the first stopping portion (112, 122).

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054965 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : MOTOR UNIT AND ELECTRIC VEHICLE

(51) International classification	:H02K0007116000, H02K0011215000, G03G0021000000, F03D0015000000, F16H0003000000	(71)Name of Applicant : 1)NIDEC CORPORATION Address of Applicant :338 KUZETONOSHIRO-CHO, MINAMI-KU, KYOTO-SHI, KYOTO 601-8205, JAPAN Japan
(31) Priority Document No	:2021-161147	(72)Name of Inventor : 1)YOKOGAWA, TOMOYOSHI
(32) Priority Date	:30/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A motor unit includes: a motor part including a motor shaft that rotates about a central axis; a gear part including multiple gears disposed on one axial side along the central axis with respect to the motor part; and a housing that accommodates the motor part and the gear part. The housing is provided with a lubricant located in a lower portion inside the housing. At least one of the gears includes a portion in contact with the lubricant. The at least one gear in contact with the lubricant includes a lubricant holder provided on a surface.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054980 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATED SYSTEM FOR MOUNTING FRONT-END MODULE FOR VEHICLE

(51) International classification	:B62D0065020000, B23P0019100000, B62D0025080000, B23K0101000000, B60Q0001040000	(71)Name of Applicant : 1)HYUNDAI MOTOR COMPANY Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea 2)KIA CORPORATION
(31) Priority Document No	:10-2021-0177458	(72)Name of Inventor :
(32) Priority Date	:13/12/2021	1)KIM, Euihyun
(33) Name of priority country	:Republic of Korea	2)GONG, Jung Su
(86) International Application No	:NA	3)SHIN, Jeuk
Filing Date	:NA	4)JANG, Jieun
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AUTOMATED SYSTEM FOR MOUNTING FRONT-END MODULE FOR VEHICLE An automated system for mounting a front-end module (FEM) including a first headlamp assembly and a second headlamp assembly assembled to both sides of a carrier body, and a FEM installation portion of a vehicle body, the automated system includes a FEM gripper mounted on an arm of a first handling robot, a vision sensor mounted on an arm of a second handling robot through a mounting bracket and configured to vision-photograph a first reference portion formed on the vehicle body and a first vehicle body coupling hole formed on the first headlamp assembly and vision-photograph a formed on the vehicle body second a second vehicle body coupling hole formed on reference portion and the second headlamp assembly, while the front-end module is loaded on the FEM installation portion by the FEM gripper, and a controller configured to analyze vision data obtained from the vision sensor and apply a position control signal to the first handling robot.

No. of Pages : 56 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055027 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F02B0075120000, F02M0061160000, F02M0061180000, F02M0061140000, F02M0051060000	(71) Name of Applicant : 1)JCB RESEARCH Address of Applicant :Lakeside Works Rocester Uttoxeter Staffordshire ST14 5JP, United Kingdom U.K.
(31) Priority Document No	:2113870.6	(72) Name of Inventor :
(32) Priority Date	:28/09/2021	1)BROWNE, Kevin
(33) Name of priority country	:U.K.	2)MCCARTHY, Paul
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AN INTERNAL COMBUSTION ENGINE An internal combustion engine for use with hydrogen fuel, the engine having at least one cylinder assembly, the or each cylinder assembly comprising a combustion chamber comprising a cylinder, a cylinder head and a reciprocating piston assembly, the cylinder defining a cylinder longitudinal axis; a fuel injector for injecting fuel into the combustion chamber, the fuel injector defining an injector longitudinal axis; and a fuel flow director, wherein the fuel flow director is located in the fuel flow path between an outlet of the fuel injector and the combustion chamber. The fuel injector is oriented such that the injector longitudinal axis extends at a first angle; and the fuel flow director is configured to direct fuel flow into the combustion chamber at a second angle, different to the first angle.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053858 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRICITY DISTRIBUTION SYSTEM FOR A DOMESTIC INSTALLATION COMPRISING, METHODFOR MANAGING SUCH AN ELECTRICITY DISTRIBUTION SYSTEM

(51) International classification	:H04B0003540000, H04B0003560000, H02J0003140000, H01F0030120000, H02J0013000000	(71)Name of Applicant : 1)Schneider Electric Industries SAS Address of Applicant :35 rue Joseph Monier, 92500 Rueil Malmaison - FRANCE France
(31) Priority Document No	:FR 2110100	(72)Name of Inventor : 1)LEBEAU Bernard
(32) Priority Date	:24/09/2021	2)DU PORT DE PONCHARRA Etienne
(33) Name of priority country	:France	3)BUR Emmanuel
(86) International Application No	:NA	4)FASSI Brice
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Electricity distribution system for a domestic installation, method for managing such an electricity distribution system An electrical distribution system (30) comprises a distributor (36) designed to distribute an electric current in an electrical installation, the distributor being configured to be connected to a distribution grid (32), to at least one secondary electrical power supply source (34, 50, 60) and to a plurality of the electrical loads (80, 82, 84, 86, 88). An electronic control device (100) is configured to manage power supply parameters of at least some of the electrical loads to reduce the electric current consumed and/or to manage operating parameters of at least some of the secondary electrical power supply sources in order to reduce the electric current delivered by these sources, so as to comply with a current threshold dictated by a protection element (11) and/or by the distributor (36).

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053933 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PROJECTION LENS SYSTEM, PROJECTION APPARATUS AND ELECTRONIC DEVICE

(51) International classification	:G03B0021200000, H04N0009310000, G03B0021140000, G02B0013160000, G03B0021160000	(71) Name of Applicant : 1)LARGAN PRECISION CO., LTD. Address of Applicant :No .11, Jingke Rd., Nantun District, Taichung City 408, Taiwan
(31) Priority Document No	:111116348	(72) Name of Inventor :
(32) Priority Date	:29/04/2022	1)TZU-CHIEH KUO
(33) Name of priority country /region	:Taiwan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PROJECTION LENS SYSTEM, PROJECTION APPARATUS AND ELECTRONIC DEVICE A projection lens system includes two lens elements being, in order from a magnification side to a reduction side along an optical path, a first lens element, and a second lens element. Each of the two lens elements has a magnification-side surface facing the magnification side and a reduction-side surface facing the reduction side. At least one of the magnification-side surface and the reduction-side surface of at least one of the two lens elements is aspheric.

No. of Pages : 54 No. of Claims : 20

(54) Title of the invention : SELF-STERILIZING DISPLAY DEVICE

(51) International classification :F21V0008000000,
G02B0027010000,
G02F0001133570,
G02B0030250000,
G06F0003030000

(31) Priority Document No :TW 111108883

(32) Priority Date :10/03/2022

(33) Name of priority country /region :Taiwan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Wistron Corporation
Address of Applicant :21F., No.88, Sec.1, Hsintai 5th Rd.,
Hsichih, New Taipei City 22181, Taiwan

(72)Name of Inventor :
1)Shiau, Yi-Hau

(57) Abstract :

A self-sterilizing display device (10) is applied to self-sterilizing with a UV light (Luv). The self-sterilizing display device (10) includes a display (110), a light-incident layer (120), a light source (130), and a turning layer (140). The light-incident layer (120) is disposed above the display (110). The light source (130) is disposed at a periphery of the light-incident layer (120), and a light-emitting surface (130a) of the light source (130) faces to the light-incident layer (120). The turning layer (140) is disposed on a lower surface (120b) of the light-incident layer (120). Herein, the light source (130) can emit the UV light (Luv) toward the light-incident layer (120) for sterilizing an outer surface (10a) of the self-sterilizing display device (10) by irradiation, and the turning layer (140) can change the direction of an optical path of the UV light (Luv). Therefore, the surface can be sterilized by UV light (Luv), and the UV light (Luv) can be prevented or reduced from being incident on the display (110) below and damaging the display (110).

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053983 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LIGHTING INSTRUMENT

(51) International classification	:F21V0029830000, F21V0029740000, F21Y0115100000, H01L0023367000, F21K0009000000	(71)Name of Applicant : 1)PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD. Address of Applicant :1-61, Shiromi 2- chome, Chuo-ku, Osaka-shi, Osaka 540-6207, Japan Japan
(31) Priority Document No	:2021-157140	(72)Name of Inventor :
(32) Priority Date	:27/09/2021	1)TSUJI, Hiroya
(33) Name of priority country	:Japan	2)FUKUDA, Hisashi
(86) International Application No	:NA	3)SHIMIZU, Toshiyuki
Filing Date	:NA	4)SAEGUSA, Hirokazu
(87) International Publication No	: NA	5)FURUTANI, Tatsuya
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT LIGHTING INSTRUMENT To improve the radiation performance of a lighting instrument while reducing the lighting instrument in size. A lighting instrument includes a light source unit 1 that has a light source and is attached to a bottom plate 42, and a plurality of radiation fins 31 attached to the bottom plate 42. The plurality of radiation fins 31 each have a base portion 311 fixed to the bottom plate 42, and radiation plates 312, 313 formed to be inclined with respect to the bottom plate 42.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053985 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE FRONT STRUCTURE

(51) International classification :B62D0025080000,
B62D0021150000,
H01L0029660000,
B62J0006020000,
B60Q0001040000
(31) Priority Document No :2021-160504
(32) Priority Date :30/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(72)Name of Inventor :
1)Atsushi NAKAMURA

(57) Abstract :

VEHICLE FRONT STRUCTURE Provided is a vehicle front structure capable of efficiently guiding outside air flowing in a flow path of an air intake cover to an air intake of a dash panel. A vehicle front structure 100 includes an air intake 102 provided on a dash panel 108 that takes in air via an air conditioning 10 unit 112 in a vehicle cabin; an air intake cover 104 fixed to the dash panel that forms a flow path for guiding, to the air intake, outside air that has entered a cowl portion 113; and a waterproof wall 106 disposed between the air intake and the air intake cover and erected from the dash panel, 15 extending in a vehicle width direction in front of the air intake, wherein the air intake cover includes an upper wall 114 disposed above the air intake that defines an upper side of the flow path, and a pair of side walls 116 and 118 that extend continuously from both ends of the upper wall in the 20 vehicle width direction to the dash panel and define sides in the vehicle width direction of the flow path; and wherein the upper wall includes a rising portion 152 disposed at a position back from the waterproof wall that rises upward as it extends backward, and an extending portion 154 that 25 extends forward, continuous from a front end 155 of the rising portion.

No. of Pages : 38 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052865 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : COMPUTING SYSTEM FOR EXECUTING HYBRID QUANTUM/CLASSICAL PROGRAMS

(51) International classification	:G06N0010000000, B82Y0010000000, G06F0009500000, B82Y0020000000, G06F0008300000	(71)Name of Applicant : 1)BULL SAS Address of Applicant :Rue Jean JaurèsLes Clayes-sous-Bois, 78340, France France
(31) Priority Document No	:21306277.1	(72)Name of Inventor :
(32) Priority Date	:16/09/2021	1)ALLOUCHE, Cyril
(33) Name of priority country	:France	2)AYRAL, Thomas
(86) International Application No	:NA	3)MARTIEL, Simon
Filing Date	:NA	4)GAZDA, Arnaud
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

COMPUTING SYSTEM FOR EXECUTING HYBRID QUANTUM/CLASSICAL PROGRAMS ABSTRACT The present disclosure relates to a computing system (10) for executing hybrid programs, said computing system comprising: - hardware resources comprising quantum computing resources and classical computing resources (12), said quantum computing resources comprising one or more quantum computers (11); - software resources to be executed on the hardware resources; wherein the software resources comprise a plurality of processing modules (32, 33) comprising interfaces of two possible types referred to as upstream interface (30) and downstream interface (31), wherein said plurality of processing modules comprises: - at least one quantum processing module (32) for each quantum computer, wherein each quantum processing module comprises an upstream interface; - a plurality of plugin modules (33), wherein each plugin module comprises both an upstream interface and a downstream interface; wherein a hybrid program is built by connecting at least one plugin module and one quantum processing module.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052870 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE TRANSPORTATION STORAGE SYSTEM AND METHOD

(51) International classification	:B65D0090000000, H05B0006700000, B65D0021020000, B65D0077040000, H05B0006680000	(71)Name of Applicant : 1)TRANSPORTATION IP HOLDINGS, LLC Address of Applicant :901 Main Avenue Norwalk Connecticut U.S.A. 06851 U.S.A.
(31) Priority Document No	:17/505,283	(72)Name of Inventor :
(32) Priority Date	:19/10/2021	1)Anthony D. Paul
(33) Name of priority country	:U.S.A.	2)Milan Karunaratne
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT VEHICLE TRANSPORTATION STORAGE SYSTEM AND METHOD A transportation storage system and method includes a vehicle having a platform on a chassis, plural storage containers disposed on the platform, and electronic locksets mounted to the storage containers. Each of the storage containers includes multiple module walls that define a cavity to receive an object, and a container door mounted to the module walls at an access end of the storage container to enclose the cavity when in a closed state. The electronic locksets lock the container doors in the closed state, and provide access to the object within the respective cavity in response to receiving a corresponding unlock signal. The storage containers are oriented on the platform such that the container doors are accessible to an individual that is off-board the vehicle or that is on the platform to extract the object from the cavity or to deposit the object into the cavity.

No. of Pages : 48 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052896 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY APPARATUS

(51) International classification :H01M0002200000,
H01B0007080000,
H01R0012770000,
H01B0007000000,
H01M0010480000
(31) Priority Document No :202210334355.9
(32) Priority Date :30/03/2022
(33) Name of priority country :China
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)CALB CO., LTD.

Address of Applicant :NO.1 JIANGDONG ROAD, JINTAN
DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE,
CHINA China

(72)Name of Inventor :

1)QIU, FEIXING

(57) Abstract :

A battery apparatus includes a flexible flat cable (1) and a busbar (3). A collection end of the flexible flat cable (1) is provided with a collection component (2). A larger surface (32) of the busbar (3) is provided with a connection hole (30), and the collection component (2) is inserted into the connection hole (30). The collection component (2) and/or the busbar (3) is provided with a first limiting structure (4) for mutually limiting the collection component (2) and the connection hole (30).

No. of Pages : 20 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052928 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : OPERATING FORCE TRANSMISSION STRUCTURE FOR VEHICLE

(51) International classification	:B60H0001000000, H01Q0001320000, B60N0002420000, B60H0001240000, B60H0001340000	(71)Name of Applicant : 1)Suzuki Motor Corporation Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-153410	(72)Name of Inventor : 1)WADA, Shinya
(32) Priority Date	:21/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OPERATING FORCE TRANSMISSION STRUCTURE FOR VEHICLE An operating force transmission structure (100) for a vehicle of the present invention includes: a link member (140, 340) inserted through a vehicle body panel (30) separating an inside of a vehicle interior (21) from an outside thereof; a first cable (110) coupled to the link member (140, 340) and routed on the inner side; and a second cable (120) coupled to the link member (140, 340) and routed on an outer side of the vehicle interior (21). The operating force transmission structure (100) transmits an operating force from the first cable (110) to the second cable (120) via the link member (140, 340), thereby transmitting the operating force from the inner side, through the vehicle body panel (30), to the outer side. Selection Figure: Fig. 2

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055032 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR PARALLELING OF INTERLEAVED POWER CONVERTERS

(51) International classification	:H01L0021560000, H02M0007493000, H02M0003158000, H01L0023500000, H02J0003420000	(71) Name of Applicant : 1)Schneider Electric IT Corporation Address of Applicant :70 Mechanic Street, Foxboro, Massachusetts 02035, United States of America U.S.A.
(31) Priority Document No	:17/489,183	(72) Name of Inventor :
(32) Priority Date	:29/09/2021	1)MOURIDSEN, Jonas Sonsby
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD FOR PARALLELING OF INTERLEAVED POWER CONVERTERS Examples of the disclosure include a UPS comprising an output to be coupled to a load, a 5 first converter leg to provide a first voltage to the output and including at least one of a first relay or fuse, a second converter leg in parallel with the first converter leg including at least one of a second relay or fuse and configured to provide a second voltage to the output out of phase with the first converter leg providing the first voltage signal, current sensors coupled to the first and second converter legs, respectively, and configured to provide a first signal indicative of a 10 current in the first converter leg and a second signal indicative of a current in the second converter leg, respectively, and at least one controller to receive the signals, determine a current difference between the converter legs based on the signals, and decrease the current difference.

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055069 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DC BUS CAPACITOR ASSEMBLIES FOR VIENNA VFD IN AIR CONDITIONING SYSTEMS

(51) International classification	:H02M0005458000, H02M0001320000, F24F0011300000, H02M0001420000, F24F0011460000	(71) Name of Applicant : 1)CARRIER CORPORATION Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:63/252,303	(72) Name of Inventor :
(32) Priority Date	:05/10/2021	1)BORISOV, Konstantin
(33) Name of priority country	:U.S.A.	2)AGIRMAN, Ismail
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DC BUS CAPACITOR ASSEMBLIES FOR VIENNA VFD IN AIR CONDITIONING SYSTEMS A drive for an air conditioning system includes a converter assembly 5 including a Vienna rectifier having a converter capacitance across a positive DC bus and a negative DC bus; and an inverter assembly including an inverter capacitance across the positive DC bus and the negative DC bus, the inverter capacitance in electrical parallel with the converter capacitance; wherein the converter assembly and the inverter assembly are physically separate assemblies.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055101 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR GASEOUS HYDROGEN RECOVERY IN A HYDROGEN FUELING STATION

(51) International classification	:C01B0003560000, F17C0005060000, H01M0008065000, F17C0005000000, C01B0003500000	(71) Name of Applicant : 1)AIR PRODUCTS AND CHEMICALS, INC. Address of Applicant :1940 AIR PRODUCTS, BOULEVARD ALLENTOWN, PA 18106-5500, USA U.S.A.
(31) Priority Document No	:17/492,816	(72) Name of Inventor :
(32) Priority Date	:04/10/2021	1)DAVID JONATHAN CHALK
(33) Name of priority country	:U.S.A.	2)JOSEPH P. COHEN
(86) International Application No	:NA	3)DAVID JOHN FARESE
Filing Date	:NA	4)BENJAMIN H. S. TORDA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYSTEM AND METHOD FOR GASEOUS HYDROGEN RECOVERY IN A HYDROGEN FUELING STATION The invention relates to an integrated hydrogen fueling station for fueling of vehicle tanks with hydrogen characterized in that it comprises an electrochemical compressing unit in which secondary hydrogen originating from leakage, boiling-off or venting of hydrogen-containing gas in one or more of the fueling station's operative units is compressed wherein the secondary hydrogen contains hydrogen and further gaseous components, and to a method for operating such a hydrogen fueling station.

No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055105 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE CONTROL DEVICE

(51) International classification	:B60W0020000000, B60W0030095000, B60L0050160000, B60L0015200000, B60K0006445000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-162967	(72) Name of Inventor : 1)Toshihide TACHIBANA
(32) Priority Date	:01/10/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VEHICLE CONTROL DEVICE 5 There is provided a vehicle control device (11) including: an inverter (12) that is configured to drive an electric motor (1); a DC/DC converter (13) that is configured to step down a voltage output from a high voltage battery (2); a pre-charge circuit (16) including a precharge switch; a voltage detector (19) that is configured to detect an input voltage input to the inverter (12) and the DC/DC converter (13); and a controller (20). When the input voltage is 10 lower than the input voltage at the time when pre-charge of the inverter (12) is completed, the controller (20) is configured to determine that power supplied from a power supply of the DC/DC converter (13) to the DC/DC converter (13) is not normally stopped.

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055110 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTERNAL COMBUSTION ENGINE

(51) International classification	:F02F0001240000, F02B0075020000, F02F0001420000, F02M0031180000, F02B0019120000	(71) Name of Applicant : 1)JCB RESEARCH Address of Applicant :Lakeside Works Rocester Uttoxeter Staffordshire ST14 5JP, United Kingdom U.K.
(31) Priority Document No	:2113872.2	(72) Name of Inventor :
(32) Priority Date	:28/09/2021	1)BROWNE, Kevin
(33) Name of priority country	:U.K.	2)MCCARTHY, Paul
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

INTERNAL COMBUSTION ENGINE An internal combustion engine for use with hydrogen fuel is provided, the engine having at least one cylinder assembly. The or each cylinder assembly comprises a combustion chamber comprising a cylinder, a cylinder head and a reciprocating piston assembly; two inlet ports within the cylinder head, the inlet ports being selectively closable by a corresponding inlet valve; at least one outlet port within the cylinder head, the at least one outlet port being selectively closable by a corresponding outlet valve; and at least one spark plug mounted to the cylinder head. The cylinder head comprises a first face and a second face inclined relative to one another and meeting at an apex. The two inlet ports are located within the first face and the or each outlet port are located within the second face. This is such that the or each inlet port is configured to generate a tumbling motion of the fuel air mixture prior to ignition thereof. The cylinder head is secured by six fasteners, such as six bolts to an engine block defining the cylinder. [Figure 9]

No. of Pages : 43 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053994 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICE FOR TWISTING PIECES OF DOUGH

(51) International classification	:A21C0009080000, A21C0003080000, B21D0011140000, D01H0007920000, A23L0007130000	(71)Name of Applicant : 1)FRITSCH Bakery Technologies GmbH & Co. KG Address of Applicant :Bahnhofstraße 27-31, 97348 Markt Einersheim, Germany Germany
(31) Priority Document No	:102021124622.9	(72)Name of Inventor : 1)Michael GIER
(32) Priority Date	:23/09/2021	
(33) Name of priority country	:Germany	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Device for twisting pieces of dough Device (1) for twisting pieces of dough (2), comprising a conveyor (3) configured to convey pieces of dough (2) in a production direction (P). The device 1 further comprises at least one holding belt (4) arranged above the conveyor (3) and configured to engage with a first portion (5) of a piece of dough (2) arranged on the conveyor (3). Further, the device 1 comprises a turning device (6) configured to turn a turning portion (7) of the piece of dough (2) relative to the first portion (5) and upwardly while the holding belt (4) engages with the first portion (5) of the piece of dough (2).

No. of Pages : 15 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054024 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A SCROLL COMPRESSOR PROVIDED WITH A DISCHARGE MUFFLER ARRANGEMENT

(51) International classification	:F04C0018020000, F04C0023000000, F04C0029120000, F04C0029060000, F01N0001080000	(71)Name of Applicant : 1)DANFOSS COMMERCIAL COMPRESSORS Address of Applicant :Route Departementale 28 ZI Lieudit Les Communaux Reyrieux 01600 Trevoux, France France
(31) Priority Document No	:21/12577	(72)Name of Inventor :
(32) Priority Date	:26/11/2021	1)DARGHAM, Remi Bou
(33) Name of priority country	:France	2)LAVILLE, Alain
(86) International Application No	:NA	3)DAUSSIN, Arnaud
Filing Date	:NA	4)LAISSUS, Jean-Jacques
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The scroll compressor includes a compressor shell having a discharge outlet; an orbiting scroll; a fixed scroll comprising a discharge passage (16); a discharge pressure volume (17) at least partially defined by the compressor shell and the fixed scroll (7); a discharge muffler arrangement (21) attached to the fixed scroll (7) and arranged in the discharge pressure volume (17), the discharge muffler arrangement (21) including a first tubular element (28) provided with a muffler inlet (29) fluidly connected to the discharge passage (16), an expansion chamber (33) fluidly connected to an inner volume of the first tubular element (28), and a second tubular element (35) including an inlet opening emerging in the expansion chamber (33) and an outlet opening fluidly connected to the discharge pressure volume (17).

No. of Pages : 18 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054060 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION

(51) International classification	:G06F0003048800, G06F0003048400, G06F0003048100, G06Q0010100000, G06T0013800000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/339,406	(72) Name of Inventor :
(32) Priority Date	:06/05/2022	1)KARUNAMUNI, Chanaka, G.
(33) Name of priority country	:U.S.A.	2)TYLER, William M.
(86) International Application No	:NA	3)PAUL, Grant, R.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION A computer system, in response to a request to display a second user interface in an application user interface region, and in accordance with a determination that the 5 second user interface is associated with respective software that is different from a first application, ceases to display a first user interface and displays the second user interface in the application user interface region. In accordance with a determination that the status region is associated with an active session of a second application that is different from the first application, the computer system displays, in a first 10 portion of the status region, a first indication of a current state of the first application, including updating the displayed first indication as the state of the first application changes and displays, in a second portion of the status region, a second indication of a current state of the second application.

No. of Pages : 425 No. of Claims : 21

(54) Title of the invention : DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION

(51) International classification :G06F0003048800,
G06F0003048400,
G06F0003048200,
G06Q0010100000,
G06F0003010000

(31) Priority Document No :63/339,406
(32) Priority Date :06/05/2022
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)APPLE INC.
Address of Applicant :One Apple Park Way Cupertino,
California 95014, United States of America U.S.A.

(72)Name of Inventor :
1)KARUNAMUNI, Chanaka, G.
2)TYLER, William M.
3)PAUL, Grant, R.

(57) Abstract :

DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION A computer system displays, in a first display region, a first user interface object 5 that includes status information provided by respective software about a state of the computer system, wherein the first display region encompasses one or more sensor regions. The computer system displays, in a second display region of the display generation component that is different from the first display region, a user interface of an application that is different from the respective software, wherein the second 10 display region at least partially surrounds the first display region. As the state of the computer system changes, the computer system displays in the first user interface object updated status information provided by the respective software about the changed state of the computer system, wherein the updated status information includes visual elements that are selected so as to avoid overlapping locations of 15 the one or more sensors in the first display region. A computer system has a display area, wherein the display area at least partially encompasses a status region. The computer system detects a user input corresponding to the status region. In response to detecting the user input 20 corresponding to the status region, the computer system, in accordance with a determination that the status region is associated with an active session of a respective application, performs an operation associated with the respective application and in accordance with a determination that the status region is not associated with an active session of a respective application, provides feedback 25 associated with the user input without displaying information about a respective application in the status region and without performing an operation associated with a respective application. 336 A computer system, having a display area that includes a status region, displays, in the display area outside of the status region, a first user interface that includes a respective user interface element for initiating enrollment of a biometric feature of a user. The computer system detects a user input directed to the respective user 5 interface element to initiate enrollment of a biometric feature of the user. In response to detecting the user input, the computer system performs a biometric enrollment process, including, while maintaining display of the first user interface in the display area outside of the status region, displaying, in the status region, a biometric enrollment user interface and updating the biometric enrollment user 10 interface in the status region during the biometric enrollment process, including while capturing biometric information about the biometric feature of the user, to indicate a current status of the biometric enrollment process. A computer system is in communication with one or more sensors that are 15 positioned within one or more sensor regions that are surrounded by a display area. The computer system detects a user input invoking a virtual assistant of the computer system. In response to detecting the user input invoking the virtual assistant, the computer system displays, in the first display region, a visual indication that the virtual assistant is active. The computer system receives a voice 20 command directed to the virtual assistant and, in response, performs an operation responsive to the voice command and updates the first display region, displaying an outcome of the operation performed in response to the voice command, wherein the updating includes displaying visual elements that are selected so as to avoid overlapping locations of the one or more sensors in the first display region. 25 A computer system displays, in display area outside of a system user interface region, a first user interface. In accordance with a determination that the system user interface region is displayed in a first display state, the computer system displays the system user interface region with a first visual edge treatment and 30 displays a background of an interior portion of the system user interface region with 337 a first appearance. In accordance with a determination that the system user interface region is displayed in a second display state distinct from the first display state, the computer system displays the system user interface region with a second visual edge treatment that is distinct from the first visual edge treatment and displays the 5 background of the interior portion of the system user interface region with the first appearance. A computer system displays, in a status region that is associated with an active session of first software, first information that includes status information about the 10 first software. While displaying the first information in the status region, the computer system detects occurrence of an event corresponding to a transition to displaying second information that is different from the first information, and, in response, displays a transition that includes: ceasing to display the first information in the status region; displaying the second information in the status region, wherein 15 the second information includes status information about second software that is different from the first software, and the status region is associated with an active session of the second software; and, while transitioning from displaying the first information to displaying the second information in the status region, reducing a size of the status region and then increasing the size of the status region.

No. of Pages : 460 No. of Claims : 172

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054078 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION

(51) International classification	:G06F0003048800, G06F0003048500, G06F0003048400, G06F0003048200, G06F0003048100	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/339,406	(72)Name of Inventor :
(32) Priority Date	:06/05/2022	1)KARUNAMUNI, Chanaka, G.
(33) Name of priority country	:U.S.A.	2)TYLER, William M.
(86) International Application No	:NA	3)PAUL, Grant, R.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR UPDATING A SESSION REGION A computer system displays, in display area outside of a status region, a first user interface of a respective application executing on the computer system. The 5 computer system detects a user input corresponding to a request to dismiss the first user interface and ceases to display, in the display area, the first user interface. The computer system displays in the status region an indication of a current state of the respective application and displays a second user interface that is associated with respective software. The computer system detects a user input to navigate from the 10 second user interface that is associated with respective software that is different from the respective application to a third user interface and displays the third user interface in the display area outside of the status region while continuing to display, in the status region, the indication of a current state of the respective application.

No. of Pages : 424 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052592 A

(19) INDIA

(22) Date of filing of Application :14/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LEANING VEHICLE

(51) International classification :B62K0005100000,
B62K0005027000,
B62K0005050000,
B62K0005080000,
B62D0009020000
(31) Priority Document No :2021-161637
(32) Priority Date :30/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)YAMAHA HATSUDOKI KABUSHIKI KAISHA
Address of Applicant :2500, Shingai, Iwata-shi, Shizuoka-ken
438-8501, Japan Japan
(72)Name of Inventor :
1)Tatsuya NAGATA
2)Toshifumi UCHIYAMA

(57) Abstract :

LEANING VEHICLE A leaning vehicle (1) includes a link mechanism (20) supported on a vehicle body frame (10), a left front wheel (3L) and a right front wheel (3R) supported on the link mechanism (20), and an inertial measurement unit (IMU) (6). The link mechanism (20) includes an upper arm (21) and a lower arm (22) rotatably supported on the head pipe (11), and a left side member (23) and a right side member (24) rotatably supported on the upper arm (21) and the lower arm (22). The IMU (6) is arranged downward relative to the upper end of the upper arm (21), upward relative to the lower end of the lower arm (22), rightward relative to the left end of the left side member (23), leftward relative to the right end of the right side member (24), and rearward relative to the front end (5f) of a seat (5). The leaning vehicle (1) includes an actuator (31) that rotates the upper arm (21) and the lower arm (22), and a control device (36) that receives a signal from the IMU (6) to control the actuator (31). FIG. 2.

No. of Pages : 29 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052614 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOCK STRUCTURE OF A CHARGING GUN

(51) International classification	:H01R0013627000, B29C0064153000, F16D0001112000, A61B0017170000, H04N0007180000	(71) Name of Applicant : 1)K.S. TERMINALS INC. Address of Applicant :NO.8, ZHANGBIN E. 3rd RD., XIANXI TOWNSHIP, CHANGHUA COUNTY 507, TAIWAN,
(31) Priority Document No	:111203667	(72) Name of Inventor :
(32) Priority Date	:12/04/2022	1)HSIEH, Ping-Tsang
(33) Name of priority country /region	:Taiwan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A lock structure of a charging gun is disclosed, which includes a locking component and a gun body. The pressing end of the locking component is formed with a slot. The slot is provided with an upside face and a downside face spaced in apart. The opening of the slot is formed with a column in connection with the upside face and the downside face. The downside face of the slot is formed with a through hole. A shaft of the locking component is installed on the gun body. The gun body has a surface close to the downside face. The gun body has a convex block configured inside the through hole.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052617 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADJUSTMENT OF RADIO FREQUENCY SETTINGS OF NEAR-FIELD COMMUNICATION CIRCUITRY

(51) International classification	:H04W0004800000, H04B0005000000, G06Q0020320000, G06K0007100000, H04W0072040000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,206	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)MOORTHY, Vignesh Babu
(33) Name of priority country	:U.S.A.	2)SINGH, Rahul Narayan
(86) International Application No	:NA	3)SCOTT, Gordon Y.
Filing Date	:NA	4)CHUNG, Ho Cheung
(87) International Publication No	: NA	5)GOEL, Nischay
(61) Patent of Addition to Application Number	:NA	6)BANGALORE, Mahendra
Filing Date	:NA	7)BYREGOWDA, Nitin
(62) Divisional to Application Number	:NA	8)CHAUVIN, Vincent
Filing Date	:NA	9)ELRAD, Oren M.

(57) Abstract :

ADJUSTMENT OF RADIO FREQUENCY SETTINGS OF NEAR-FIELD COMMUNICATION CIRCUITRY A user device including near-field communication (NFC) circuitry may receive a polling message from an NFC terminal. The user device may obtain information based at least in part on the polling message. The user device may determine a characteristic of the NFC terminal based at least in part on the information. The characteristic may be indicative of a radio frequency (RF) field strength of the NFC terminal. The user device may adjust an RF setting of the NFC circuitry based at least in part on the characteristic. The RF setting may correspond to an RF sensitivity of the NFC circuitry.

No. of Pages : 40 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052632 A

(19) INDIA

(22) Date of filing of Application :15/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY

(51) International classification	:H01M0002120000, H01M0002040000, H01M0002020000, B60T0008172000, G01V0005000000	(71)Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210699666.5	(72)Name of Inventor :
(32) Priority Date	:20/06/2022	1)XU, JIULING
(33) Name of priority country	:China	2)ZHANG, YONGJIE
(86) International Application No	:NA	3)ZHAO, HAO
Filing Date	:NA	4)ZHANG, LULU
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery includes an explosion-proof valve (10) and a battery casing (20). The explosion-proof valve (10) is arranged in the battery casing (20). The explosion-proof valve (10) includes a first straight line segment (11), a second straight line segment (12) and a circular arc segment (13). Two ends of the circular arc segment (13) are respectively connected to the first straight line segment (11) and the second straight line segment (12). Lengths of the first straight line segment (11) and the second straight line segment (12) are respectively a and b, and an arc length of the circular arc segment (13) is c, a radius of curvature of the circular arc segment (13) is r, and $0.8 \leq a/b \leq 1.2$ and $0.5 \leq c/r \leq 2.7$ are satisfied.

No. of Pages : 29 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056778 A

(19) INDIA

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONTROL DEVICE, CONTROL SYSTEM, AND CONTROL METHOD

(51) International classification	:H04L0045000000, G05B0013020000, G06F0003034600, H04N0005235000, G05B0015020000	(71)Name of Applicant : 1)Hitachi, Ltd. Address of Applicant :6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1008280, Japan Japan
(31) Priority Document No	:2022-086058	(72)Name of Inventor :
(32) Priority Date	:26/05/2022	1)Satoshi HATTORI
(33) Name of priority country	:Japan	2)Keiki TAKATA
(86) International Application No	:NA	3)Yuki TAUCHI
Filing Date	:NA	4)Daiki KUROKAWA
(87) International Publication No	: NA	5)Masataka WATAJIMA
(61) Patent of Addition to Application Number	:NA	6)Takashi ABE
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT CONTROL DEVICE, CONTROL SYSTEM, AND CONTROL METHOD To provide a control device, a control system, a control method, and a program capable of more easily applying various control systems to a control target. Provided is a control device including: a control target state grasping device that acquires a state quantity of a predetermined control target; and a control system switching device that selects a registration control system for controlling the control target on the basis of the acquired state quantity and a plurality of kinds of relations prepared in advance as relations between input data to be input to the registration control systems and output data including information of an output destination for outputting a control command from any one of the registration control systems to the control target.

No. of Pages : 93 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052970 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICES AND METHODS FOR MITIGATING VIBRATIONS IN WIND TURBINES

(51) International classification	:F03D0001060000, F03D0007020000, F03D0003060000, F03D0013100000, F03D0013200000	(71)Name of Applicant : 1)GENERAL ELECTRIC RENOVABLES ESPAÑA S.L. Address of Applicant :Roc Boronat, 78, 08005 Barcelona, Spain Spain
(31) Priority Document No	:21382892.4	(72)Name of Inventor :
(32) Priority Date	:04/10/2021	1)DANIELSEN, Darren John,
(33) Name of priority country	:EPO	2)CANAL VILA, Marc,
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT DEVICES AND METHODS FOR MITIGATING VIBRATIONS IN WIND TURBINES The present disclosure relates to devices (300) for wind turbine blades (22) and methods (400) for reducing vibrations in wind turbines (10). More particularly, the present disclosure relates to devices (300) for mitigating vortex induced vibrations and stall induced vibrations, wind turbine blades (22) comprising such devices (300), and methods (400) for reducing wind turbine vibrations when the wind turbine (10) is parked, especially during wind turbine installation and/or maintenance. A device (300) is configured to be arranged around a wind turbine blade (22) and comprises three or more air flow modifying elements (305) comprising a concave outer surface (323) configured to face away from a wind turbine blade (22). The device further comprises a supporting structure (310) configured to support the plurality of air flow modifying elements (305). An angular distance (307) between adjacent air flow modifying elements (305) in cross-section is substantially constant.

No. of Pages : 34 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214052986 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DEVICES AND METHODS FOR MITIGATING VIBRATIONS IN WIND TURBINES

(51) International classification	:F03D0001060000, F03D0007020000, A61B0017000000, F03D0017000000, F03D0013200000	(71)Name of Applicant : 1)GENERAL ELECTRIC RENOVABLES ESPAÑA S.L. Address of Applicant :Roc Boronat, 78, 08005 Barcelona, Spain Spain
(31) Priority Document No	:21382890.8	(72)Name of Inventor :
(32) Priority Date	:04/10/2021	1)CANAL VILA, Marc,
(33) Name of priority country	:EPO	2)DANIELSEN, Darren John,
(86) International Application No	:NA	3)MADSEN, Jesper,
Filing Date	:NA	4)HANSEN, Rolf,
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The present disclosure relates to devices (300) for wind turbine blades (22) and methods for reducing vibrations in wind turbines (10). More particularly, the present disclosure relates to devices (300) for mitigating vortex induced vibrations and stall induced vibrations, wind turbine blades (22) comprising such devices (300), and methods for reducing wind turbine vibrations when the wind turbine (10) is parked, especially during wind turbine installation and/or maintenance. A device (300) comprises a proximal support (310) configured to be arranged around a first portion (221) of a wind turbine blade (22), a distal support (320) configured to be arranged around a second portion (222) of the wind turbine blade (22), and a barrier (330) extending between the proximal support (310) and the distal support (320). The first portion (221) of the wind turbine blade (22) is at a different longitudinal position along the blade (22) than the second portion (222). The proximal (310) and distal (320) supports are configured to provide a gap (350) between the barrier (330) and a wind turbine blade surface.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053006 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR CONTROLLING A COOLING SYSTEM OPERATIVELY CONNECTED TO A DATA PROCESSING DEVICE

(51) International classification	:G06N0020000000, G06F0001200000, F01P0007160000, F17C0013000000, F25D0029000000	(71)Name of Applicant : 1)OVH Address of Applicant :2 rue Kellermann Roubaix 59100, France France
(31) Priority Document No	:21306303.5	(72)Name of Inventor : 1)MAILLOT, Patrick-Gilles
(32) Priority Date	:21/09/2021	2)BIESKE, Michel
(33) Name of priority country	:EPO	3)THIBAUT, Christophe Maurice
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR CONTROLLING A COOLING SYSTEM OPERATIVELY CONNECTED TO A DATA PROCESSING DEVICE A method for controlling a cooling system operatively connected to a data processing device for cooling thereof. The method is executed by a controller operatively connected to the cooling system. The method comprises determining, using a machine learning model executed by the controller, an estimated forthcoming power consumption of the data processing device, the machine learning model being based at least in part on a history of power consumption of the data processing device, determining, using a cooling-control model executed by the controller, at least one control signal for controlling the cooling system, determining the at least one control signal being based at least in part on the estimated forthcoming power consumption from the machine learning model, and controlling, by the controller, the cooling system based on the at least one control signal for controlling the cooling system. To be published with Fig.1

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053024 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : EPHEMERAL MESSAGING IN A DECENTRALIZED END-TO-ENDECRYPTED MESSAGING PLATFORM

(51) International classification	:H04L0012580000, H04L0009080000, H04L0029080000, H05B0045100000, H04W0004210000	(71) Name of Applicant : 1)WhatsApp LLC Address of Applicant :1601 Willow Road, Menlo Park, California 94025, United States of America U.S.A.
(31) Priority Document No	:17/482,279	(72) Name of Inventor :
(32) Priority Date	:22/09/2021	1)CHRISTENSEN, Kevin Matthew
(33) Name of priority country	:U.S.A.	2)SAH, Shalini
(86) International Application No	:NA	3)HOLZER, Jimmy Enrico Jacques
Filing Date	:NA	4)NGUYEN, Tuan Van
(87) International Publication No	: NA	5)ROS, Santiago Pina
(61) Patent of Addition to Application Number	:NA	6)LEONG, Elton Kyin-Fong
Filing Date	:NA	7)KHAN, Zafir
(62) Divisional to Application Number	:NA	8)OU, Dafeng
Filing Date	:NA	

(57) Abstract :

EPHEMERAL MESSAGING IN A DECENTRALIZED END-TO-END ENCRYPTED MESSAGING PLATFORM Methods, systems, and storage media for providing ephemeral messages are disclosed. Exemplary implementations may: receive, at a first device, a request from a first user to send an ephemeral message to a second user; encrypt the payload of the ephemeral message; send the ephemeral message to the second user according to the recipient identifier; store the ephemeral message locally on the first device of the first user and the second device of the second user; and delete the ephemeral message from the first device and the second device upon expiration of the specified duration of time.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055111 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTERNAL COMBUSTION ENGINE

(51) International classification	:F02F0001240000, F02F0001420000, F04B0039120000, F04B0039000000, F02B0063040000	(71) Name of Applicant : 1)JCB RESEARCH Address of Applicant :Lakeside Works Rocester Uttoxeter Staffordshire ST14 5JP, United Kingdom U.K.
(31) Priority Document No	:2113871.4	(72) Name of Inventor :
(32) Priority Date	:28/09/2021	1)BROWNE, Kevin
(33) Name of priority country	:U.K.	2)MCCARTHY, Paul
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT INTERNAL COMBUSTION ENGINE An internal combustion engine for use with hydrogen fuel is provided, the engine having at least one cylinder assembly. Each cylinder assembly comprises a combustion chamber comprising a cylinder, a cylinder head and a reciprocating piston assembly; two inlet ports within the cylinder head, the inlet ports being selectively closable by a corresponding inlet valve; at least one outlet port within the cylinder head, the at least one outlet port being selectively closable by a corresponding outlet valve; at least one spark plug mounted to the cylinder head; and a piston assembly comprising a piston and a crankshaft. The engine further comprises a line passing through a centre of one of the inlet ports and a centre of a corresponding at least one outlet port. The line is arranged at a non-zero angle to an axis of rotation of the crankshaft and the line is at a non-right angle to the axis of rotation of the crankshaft. The cylinder head is secured by six fasteners, such as six bolts to an engine block defining the cylinder.

No. of Pages : 41 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055131 A

(19) INDIA

(22) Date of filing of Application :26/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : STRADDLE TYPE VEHICLE

(51) International classification	:H04N0005640000, B60R0011020000, F16M0011100000, G09F0013040000, G09F0007180000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :2-1-1, Minami-Aoyama, Minato-ku, Tokyo, 107-8556, Japan Japan
(31) Priority Document No	:2021158297	(72)Name of Inventor : 1)ITOH, Kosuke
(32) Priority Date	:28/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT STRADDLE TYPE VEHICLE A motorcycle (1) includes a handle (41), an information display device (70), an information display device support member (80), and an electric power supply unit (90) capable of supplying electric power to an external device. The information display device (70) is arranged in front of the handle (41) such that the information display surface (71) faces the rear side. The information display device support member (80) does not interlock with the handle (41), and has a rear surface (82a) that faces the rear side at the front of the handle (41). The electric power supply unit (90) includes a connector mounting section (92) on which a connector (92a) is provided, and is supported by the information display device support member (80). The connector mounting section (92) is arranged on the rear surface (82a) and exposed to a rear side from the rear surface (82a), and the connector (92a) faces a left-right direction. Most Illustrative Drawing: FIG. 3

No. of Pages : 54 No. of Claims : 9

(54) Title of the invention : VEHICLE BATTERY SUPPORT STRUCTURE

(51) International classification	:H01M0002100000, B60K0001040000, B60R0016040000, H01M0010625000, B60R0016033000	(71) Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-157887	(72) Name of Inventor : 1)Masanori UEMURA
(32) Priority Date	:28/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VEHICLE BATTERY SUPPORT STRUCTURE 5 Provided is a vehicle battery support structure capable of supporting a battery with high rigidity. A bracket 106 included in a battery support structure 100 includes an upper bracket 110 and a lower bracket 112. The upper bracket 110 includes: a top surface portion 114; a front wall 10 portion 116 that extends downward from the front edge of the top surface portion 114; and a rear wall portion 118 that extends downward from the rear edge of the top surface portion 114. The lower bracket 112 includes: an upper end portion 120 that is joined to the lower side of the upper 15 bracket 110; a bulging portion 122 that extends downward from the upper end portion 120; a front flange 124 that is formed along the front edge of the bulging portion 122, and is joined to the side portion of a side member 108; and a rear flange 126 that is formed along the rear edge of the 20 bulging portion 122, and is joined to the side portion of the side member 108. The lower bracket 112 forms a closed cross-section E1 with the upper bracket 110, a side wall of a power unit mounting room, and the side member 108.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055329 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AIR CLEANER STRUCTURE IN SADDLE RIDING VEHICLE

(51) International classification	:F02M0035160000, F02M0035020000, F02M0035024000, B62J0099000000, F02M0035040000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan Japan
(31) Priority Document No	:2021-160712	(72)Name of Inventor :
(32) Priority Date	:30/09/2021	1)Hiroshi MAHIRA
(33) Name of priority country	:Japan	2)Masahiko KAWANO
(86) International Application No	:NA	3)Takaaki HASHIMOTO
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AIR CLEANER STRUCTURE IN SADDLE RIDING VEHICLE [Problem] To provide an air cleaner having high intake efficiency. [Solution] In an air cleaner including a first case portion (37) configuring a purification chamber (33) and a second case portion (35) configuring a pre-purification chamber (32), the first case portion (37) has a generally hemispherical shape, and a connecting tube (43) causes an upstream end opening portion (57) of the connecting tube (43) to approach a top portion (39) of the generally hemispherical shape of the first case portion (37).

No. of Pages : 40 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054085 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SECURE LOADING AND EXECUTION OF USER-DEFINED CONTENT ON EMBEDDED REMOTE TERMINAL UNIT CONTROLLER

(51) International classification	:G06F0021100000, G06F0021310000, G10L0015260000, G06F0040580000, G06F0040279000	(71) Name of Applicant : 1)Schneider Electric Systems USA, Inc. Address of Applicant :70 Mechanic Street, Foxborough, Massachusetts 02035, USA U.S.A.
(31) Priority Document No	:63/271,769	(72) Name of Inventor :
(32) Priority Date	:26/10/2021	1)Aubin, Philip
(33) Name of priority country	:U.S.A.	2)Karaaslan, Salih Utku
(86) International Application No	:NA	3)Stevanovic, Milan
Filing Date	:NA	4)Goumrhar, Mourad
(87) International Publication No	: NA	5)Johnston, Wayne
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Secure loading and execution of user-defined content on an embedded controller associated with a remote terminal unit (RTU) includes providing a factory default image for the RTU having a default secured read only filesystem and providing a developer image for extending the RTU functionality, having a read/write filesystem equivalent working in conjunction with the read only filesystem.

No. of Pages : 28 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054087 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : REMOTE TERMINAL UNIT PROCESSOR REDUNDANCY SYNCHRONIZATION

(51) International classification	:G11C0029000000, H04W0074080000, G10H0001360000, A61M0001000000, G06F0001260000	(71) Name of Applicant : 1)Schneider Electric Systems USA, Inc. Address of Applicant :70 Mechanic Street, Foxborough, Massachusetts 02035, USA U.S.A.
(31) Priority Document No	:63/271,779	(72) Name of Inventor :
(32) Priority Date	:26/10/2021	1)Aubin, Philip
(33) Name of priority country	:U.S.A.	2)Masson, Richard
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Redundancy synchronization of remote terminal unit (RTU) central processing units (CPUs) associated with an industrial operation includes queuing time-stamped events on a main RTU CPU for transfer to a standby RTU CPU as the time-stamped events are generated on the main RTU CPU (i.e., in real-time). The synchronized RTU CPUs further permit synchronization of logic states and synchronization of firmware upgrades. Synchronization activities occur on the same synchronization communications channel between redundant RTU CPUs.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054099 A

(19) INDIA

(22) Date of filing of Application :21/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SECURING ACCESS TO PRIVILEGED FUNCTIONALITY IN RUN-TIME MODE ON REMOTE TERMINAL UNIT

(51) International classification	:G01C0015000000, H04W0056000000, H04L0029060000, G06F0009455000, H01R0009240000	(71) Name of Applicant : 1)Schneider Electric Systems USA, Inc. Address of Applicant :70 Mechanic Street, Foxborough, Massachusetts 02035, USA U.S.A.
(31) Priority Document No	:63/271,863	(72) Name of Inventor :
(32) Priority Date	:26/10/2021	1)Aubin, Philip
(33) Name of priority country	:U.S.A.	2)Karaaslan, Salih Utku
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A mode selector permits deactivating a run-time operational mode and activating a privileged operational mode on a remote terminal unit (RTU). One or more functionalities associated with the privileged operational mode are performed via a local and/or a remote computing device communicatively coupled to the RTU. The functionalities include at least one of developing and deploying content for the RTU, loading security certificates for the RTU, enabling Linux root account access to the RTU, and performing system maintenance on the RTU. The mode selector switch returns the RTU to the run-time operational mode after the functionalities are performed.

No. of Pages : 19 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054238 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : END INSULATING PLATE, BATTERY DEVICE AND ASSEMBLING METHOD OF BATTERY DEVICE

(51) International classification	:H01M0002260000, E04D0013170000, A63B0026000000, A63B0022160000, H01J0037320000	(71)Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210155036.1	(72)Name of Inventor :
(32) Priority Date	:21/02/2022	1)ZHAO, DONG
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An end insulating plate (1) is arranged in a battery device to insulate a battery apparatus (2). The end insulating plate (1) has a bendable glue baffle (11) disposed at a bottom portion. In first and second states, the glue baffle (11) is bent towards a first larger surface (10) of the end insulating plate, which is a surface facing away from the battery apparatus (2). In the first state, the glue baffle (11) is bent at a first inclination angle (θ). In the second state, the glue baffle (11) is bent at a second inclination angle (λ). The first inclination angle (θ) is greater than the second inclination angle (λ). When bending of the glue baffle (11) is changed from the first inclination angle (θ) to the second inclination angle (λ), the glue baffle (11) pushes glue (4) away from the bottom portion of the end insulating plate (1). FIG. 1

No. of Pages : 35 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054260 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE AIR-CONDITIONING APPARATUS

(51) International classification	:B60H0001000000, B60H0001320000, F25B0013000000, B60H0001220000, B61D0027000000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-156286	(72)Name of Inventor : 1)Katsuya TAKEO 2)Hiroki AGATA
(32) Priority Date	:27/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VEHICLE AIR-CONDITIONING APPARATUS Provided is a vehicle air-conditioning apparatus that can determine the state of a coolant more accurately by distinguishing between a warm-up state and a cool-down state of an engine and managing the state of the coolant. A vehicle air-conditioning apparatus 100 includes a compressor 10 102 for compressing a coolant, a cooling water temperature sensor 124 for measuring a temperature of an engine 108, an outside air temperature sensor 126 for measuring an outside air temperature, a coolant state determination unit 132 for determining whether there is a shortage or an overfilling of 15 the coolant, and a compressor control unit 134 for stopping the compressor when the coolant state determination unit determines a shortage or an overfilling of the coolant, and the coolant state determination unit determines whether the engine is in a warm-up state or a cool-down state by 20 comparing the temperature of the engine measured by the cooling water temperature sensor and the outside air temperature measured by the outside air temperature sensor, determines a shortage of the coolant if a coolant pressure is smaller than a first threshold, and determines 25 overfilling of the coolant if the coolant pressure is at a second threshold or more, and changes the first threshold and the second threshold between the warm-up state and the cool-down state of the engine.

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056780 A

(19) INDIA

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMAGING OPTICAL SYSTEM, CAMERA MODULE AND ELECTRONIC DEVICE

(51) International classification	:H04N0005225000, G02B0013180000, G02B0013000000, H04N0005232000, G02B0013060000	(71)Name of Applicant : 1)LARGAN PRECISION CO., LTD. Address of Applicant :No.11, Jingke Rd., Nantun Dist., Taichung City 408, Taiwan,
(31) Priority Document No	:63/253,150	(72)Name of Inventor :
(32) Priority Date	:07/10/2021	1)Pei-Chi CHANG
(33) Name of priority country	:U.S.A.	2)Chien-Pang CHANG
(86) International Application No	:NA	3)Yu-Chen LAI
Filing Date	:NA	4)Ming-Ta CHOU
(87) International Publication No	: NA	5)Wen-Yu TSAI
(61) Patent of Addition to Application	:NA	6)Kuo-Chiang CHU
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT IMAGING OPTICAL SYSTEM, CAMERA MODULE AND ELECTRONIC DEVICE An imaging optical system includes an infrared light absorbing element, an infrared light reducing film (140) and a plate element (110) in order along a paraxial path (L). The infrared light absorbing element is made of an infrared light absorbing plastic material, and the infrared light absorbing element is configured to refract a light. The infrared light reducing film (140) is closer to an image surface of the imaging optical system than an incident surface of the infrared light absorbing element to the image surface of the imaging optical system. The plate element (110) is disposed between the infrared light reducing film (140) and the image surface, the plate element (110) includes a translucent portion (111), a holder portion (112) and a taper structure coating

No. of Pages : 120 No. of Claims : 65

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056861 A

(19) INDIA

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BIOLOGICALLY ACTIVE FOOD SUPPLEMENT FOR PREVENTION OF OSTEOPOROSIS

(51) International classification	:A61K0035630000, A61P0019100000, A61K0033060000, A61K0035640000, A23L0033100000	(71)Name of Applicant : 1)ELISTRATOV, Dmitry Gennadievich Address of Applicant :dom 6, g. Penza, ul.Pakhromenko, 440023, Russia Russia
(31) Priority Document No	:2022116842	(72)Name of Inventor : 1)ELISTRATOV, Dmitry Gennadievich
(32) Priority Date	:22/06/2022	
(33) Name of priority country	:Russia	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A biologically active food supplement which is intended for the prevention of osteoporosis comprising: a calcium compound in powdered form ranging from 16.67 wt.% to 93.75 wt.% is mixed with lyophilizate of drone brood in the range of 40 to 1000 mg or 6.25 wt.% to 83.33 wt.% to obtain a homogeneous mixture with a humidity of 1 to 3.5%. The homogeneous mixture is processed to obtain the food supplement in form of powder, tablet or capsule. Each tablet or capsule contains 1 g of homogeneous mixture. The calcium compound is selected from calcium carbonate, calcium gluconate, calcium aspartate, calcium phosphate, calcium citrate. The lyophilizate is obtained by homogenizing the larval brood to form a homogenate, then freezing for 2-3 hours at a temperature of minus 35-40°C and followed by vacuum sublimation at 0.1-0.6 mm hg pressure for 40-48 hours and bringing the temperature to 25-30°C.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056951 A

(19) INDIA

(22) Date of filing of Application :04/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE HEADLINER ASSEMBLY SYSTEM AND VEHICLE HEADLINER ASSEMBLY METHOD

(51) International classification	:B60R0013020000, B32B0005260000, B60R0013080000, B60R0021040000, H01M0010040000	(71)Name of Applicant : 1)HYUNDAI MOTOR COMPANY Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea Republic of Korea 2)KIA CORPORATION
(31) Priority Document No	:10-2021-0159438	(72)Name of Inventor :
(32) Priority Date	:18/11/2021	1)MO, Young Kyun
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT VEHICLE HEADLINER ASSEMBLY SYSTEM AND VEHICLE HEADLINER ASSEMBLY METHOD Disclosed are a vehicle headliner assembly system and a vehicle headliner assembly method wherein position correction based on image capture and full process automation resolve nonuniformity of assembly quality which may occur if operators manually mount and assembly vehicle headliners individually with regard to various vehicle types, and manpower required for processes is reduced, thereby improving productivity.

No. of Pages : 37 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056957 A

(19) INDIA

(22) Date of filing of Application :04/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR DETECTING AN ERROR IN A SENSOR SIGNAL DURING OPERATION OF A FUEL INJECTOR

(51) International classification	:F02D0041200000, F02M0047020000, B60L0003000000, F02D0041220000, G10K0011178000	(71)Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:102021211261.7	(72)Name of Inventor : 1)RACK, Lars-Oliver
(32) Priority Date	:06/10/2021	2)KOBBER, Ralph
(33) Name of priority country	:Germany	3)SCHMITT, Andreas
(86) International Application No	:NA	4)FUCHS, Egbert
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR DETECTING AN ERROR IN A SENSOR SIGNAL DURING OPERATION OF A FUEL INJECTOR

The present subject matter relates to a method for detecting an error in a sensor signal (S) during operation of a fuel injector of an internal combustion engine, in which a switching valve of the fuel injector is controlled by means of a control signal, and in which the sensor signal is detected as a signal (S) from a sensor, which is provided for detecting characteristic operating points of the fuel injector, wherein at least one property of the sensor signal is determined in a respectively predetermined time window (Δt_U , Δt_O) of the sensor signal (S), which includes a time of a characteristic operating point of the fuel injector, where the property of the sensor signal includes a signal level (P) and/or a rise time (Δt_A), and wherein the method is to determine on the basis of the at least one property of the sensor signal whether an error is present.

No. of Pages : 41 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053060 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRICAL COMPONENT SUPPORT STRUCTURE

(51) International classification	:H05K0007020000, F16C0009020000, B01D0053620000, B60N0002680000, H02K0007180000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-159362	(72)Name of Inventor : 1)Fumiya AKASAKA
(32) Priority Date	:29/09/2021	2)Tatsuya KISO
(33) Name of priority country	:Japan	3)Akihiro OBARA
(86) International Application No	:NA	4)Hidetoshi KATO
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ELECTRICAL COMPONENT SUPPORT STRUCTURE 5 There is provided an electrical component support structure capable of protecting an electrical component against vehicle vibration. A cable (9B) connected to a cable connection portion (9A) extends from a tray (10) in a cable extension direction, and the tray (10) has, at an end portion in the cable extension direction in a bottom surface (11), a wall surface (12) which extends toward a vehicle upper side. A 10 front-side bracket (30) is included which is connected to the wall surface (12) and a side member (3) such that the wall surface (12) is supported by the side member (3).

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053099 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY DEVICE AND ASSEMBLING METHOD OF BATTERY DEVICE

(51) International classification	:H01M0002100000, H02J0007000000, H01M0002200000, H01M0010613000, B60K0001040000	(71)Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO.1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210235154.3	(72)Name of Inventor :
(32) Priority Date	:11/03/2022	1)ZHAO, DONG
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery device includes a box frame (3), and battery groups (2) and first beams (1) located in the box frame (3). An adhesive layer is provided between the each first beam (1) and a first side surface (21) of the adjacent battery group (2), and the adhesive layer is formed as the first beam (1) and the first side surface (21) of the adjacent battery group (2) are mutually pressed in a first direction (x). A side of one of the first beams (1) located at an end portion facing away from the battery groups (2) is adjacent to the box frame (3) and is separated from the box frame (3) by a first set interval (s). The first set interval (s) is configured to allow the first beam (1) at the end portion to move towards the first side surface (21) of the battery group (2) for adhering.

No. of Pages : 35 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053119 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLE-RIDE VEHICLE

(51) International classification	:B60R0011020000, B62J0011000000, B62J0050200000, B60R0011000000, F16H0061280000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan
(31) Priority Document No	:2021-160745	(72)Name of Inventor :
(32) Priority Date	:30/09/2021	1)ITO, Kosuke
(33) Name of priority country	:Japan	2)YOSHIDA, Naoki
(86) International Application No	:NA	3)ISHIGAMI, Koichi
Filing Date	:NA	4)NISHIDA, Tomohiro
(87) International Publication No	: NA	5)KOYAMA, Shinya
(61) Patent of Addition to Application Number	:NA	6)NAKAMURA, Kunikazu
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In a saddle-ride vehicle, placement of a storage case storing electrical and fuel-system components is devised, and flexibility is improved in the placement and structure of a fuel tank and an internal combustion engine. A saddle-ride vehicle includes an internal combustion engine (12), a fuel tank (29) disposed above the internal combustion engine (12), a vehicle body frame (11) supporting the internal combustion engine (12), and a storage case (50) storing an electrical component and a fuel-system component (53), the storage case (50) being disposed outside of the vehicle body frame (11) and near the internal combustion engine (12) and the fuel tank (29).

No. of Pages : 68 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053122 A

(19) INDIA

(22) Date of filing of Application :16/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : REFRIGERATOR CABINET

(51) International classification	:F25D0023060000, B29L0031000000, F25D0023080000, F25D0017060000, F25D0025020000	(71)Name of Applicant : 1)True Manufacturing Co., Inc. Address of Applicant :2001 E. Terra Ln. O'Fallon, Missouri 63366, USA U.S.A.
(31) Priority Document No	:17/480,827	(72)Name of Inventor :
(32) Priority Date	:21/09/2021	1)Pizzi, Christine
(33) Name of priority country	:U.S.A.	2)Pestka, Daniel
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A foot is connected to the bottom wall of a refrigeration cabinet. The foot is selectively movable relative to the bottom wall to adjust a vertical position of the foot with respect to the bottom wall. The bottom wall provides access to the foot from within the interior of the cabinet to allow a user to selectively move the foot to adjust the vertical position of the foot with respect to the bottom wall. The foot includes a stop configured to engage the bottom wall and thereby limit downward adjustment of the foot with respect to the bottom wall. A floor glide is connected to the bottom wall and initially protrudes downward from the bottom wall beyond the foot. The floor glide enables the cabinet to slide along a support surface to a deployment position so then the foot can be lowered to support the cabinet at the deployment position on the foot.

No. of Pages : 39 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053193 A

(19) INDIA

(22) Date of filing of Application :17/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SECURITY VERIFICATION METHOD, CONSUMABLE CHIP, CONSUMABLE

(51) International classification	:B41J0002175000, G03G0015000000, H04L0029060000, G03G0015080000, B22C0009040000	(71)Name of Applicant : 1)ZHUHAI PANTUM ELECTRONICS CO., LTD. Address of Applicant :Building 02,Building 06,Building 08,No. 888,Shengping Avenue, Pingsha town, Jinwan District, Zhuhai, Guangdong 519055, China China
(31) Priority Document No	:202111113245.1	(72)Name of Inventor :
(32) Priority Date	:18/09/2021	1)YU, Chengzhu
(33) Name of priority country	:China	2)NING, Dan
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SECURITY VERIFICATION METHOD, CONSUMABLE CIDP, CONSUMABLE The present disclosure provides a security verification method, a consumable chip, a consumable chipset, a consumable. The method includes obtaining a preset dynamic parameter configured to determine an authentication sequence; determining authentication sequence data 5 corresponding to a plurality of authentication events according to the preset dynamic parameter; and executing at least one of the plurality of authentication events according to the authentication sequence data and feeding back an authentication result of at least one of the plurality of authentication events to the image forming apparatus. The authentication result is configured to determine whether a consumable corresponding to at least one of consumable chips in the 10 consumable chipset satisfies a preset image forming requirement. The present disclosure effectively avoids the problem of damaging the image forming apparatus and affecting printing quality caused by the use of consumables provided by third parties that do not satisfy requirements.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055357 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DC OUTPUT VOLTAGE REGULATION IN CONVERTER FOR AIR CONDITIONING SYSTEMS

(51) International classification	:H02M0003158000, H02M0007060000, F24F0005000000, F24F0011300000, H02M0003157000	(71)Name of Applicant : 1)CARRIER CORPORATION Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:63/251235	(72)Name of Inventor :
(32) Priority Date	:01/10/2021	1)BORISOV, Konstantin
(33) Name of priority country	:U.S.A.	2)AGIRMAN, Ismail
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DC OUTPUT VOLTAGE REGULATION IN CONVERTER FOR AIR CONDITIONING SYSTEMS A converter for an air conditioning system including a rectifier section configured to receive an AC input voltage; a voltage regulator section coupled to the rectifier section, the voltage regulator section configured to control a DC output voltage across a positive DC bus and a negative DC bus; and a controller in communication with the rectifier section and the voltage regulator section, the controller configured to control the converter such that the DC output voltage is greater than AC input voltage by an offset.

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055379 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CROSS WINDING PACKAGE, METHOD FOR PRODUCING CROSS WINDING PACKAGE, AND YARN WINDING APPARATUS

(51) International classification	:H01F0027280000, B65H0055040000, B65H0067080000, B65H0054080000, B65H0054380000	(71) Name of Applicant : 1)Murata Machinery, Ltd. Address of Applicant :3, Minami Ochiai-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8326, Japan Japan
(31) Priority Document No	:2021-164637	(72) Name of Inventor : 1)Koji TAKAYASU
(32) Priority Date	:06/10/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cross winding package (100) of a cross winding package includes a cone-shaped winding bobbin (120) and a yarn layer (110). The winding bobbin (120) has a taper-shaped winding surface inclined from a central axis (C) by a first angle (θ). The yarn layer (110) is 5 wound up around the winding bobbin (120) having a surface of the wound yarn with the same inclination as the winding surface of the winding bobbin (120). The yarn layer (110) includes a first yarn layer (111) that contacts the winding bobbin (120) and has a first traverse width (W1), a second yarn layer (112) that is on the first yarn layer (111) and has a second traverse width (W2) that decreases partially or entirely along with increase in distance from the first 10 yarn layer (111), and a third yarn layer (113) that is on the second yarn layer (112) and has a third traverse width (W3). The first traverse width (W1) and the third traverse width (W3) satisfy the relationship of $W1 \times 1/2 \leq W3 \leq W1 \times 2/3$. This cross winding package has a low unraveling tension.

No. of Pages : 41 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055381 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : YARN WINDING MACHINE

(51) International classification	:B65H0054280000, B65H0054700000, B65H0063000000, H02K0015090000, B65H0067048000	(71)Name of Applicant : 1)MURATA MACHINERY, LTD. Address of Applicant :3 Minami Ochiai-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8326, Japan Japan
(31) Priority Document No	:2021-163807	(72)Name of Inventor :
(32) Priority Date	:05/10/2021	1)Kohei NOMURA
(33) Name of priority country	:Japan	2)Tsutomu MEKATA
(86) International Application No	:NA	3)Harutoshi SAWADA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

YARN WINDING MACHINE A spinning machine includes: spinning units 7; a first catch device 107; a second catch device 29; a yarn joining device 105; a first duct 95; and a second duct 96. The first catch 5 device 107 is configured to suck and catch a yarn feed part-side spun yarn 33. The second catch device 29 is configured to suck and catch a package 34-side spun yarn 33. The yarn joining device 105 is configured to join these spun yarns 33 with each other. The first duct 95 is provided along an arrangement direction of the spinning units 7, and air sucked by the first catch device 107 flows in the first duct 95. The second duct 96 is provided along the 10 arrangement direction of the spinning units 7 at a position different from that of the first duct 95. Air sucked by the second catch device 29 flows in the second duct 96.

No. of Pages : 40 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055397 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INSULATING FILM ASSEMBLY AND BATTERY APPARATUS

(51) International classification	:H01L0027120000, G02F0001136200, H03H0009020000, H01R0012790000, G11B0019040000	(71) Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210425806.X	(72) Name of Inventor :
(32) Priority Date	:21/04/2022	1)WANG, LIUJIE
(33) Name of priority country	:China	2)YAN, TINGLU
(86) International Application No	:NA	3)CAO, ZHIJUAN
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The insulating film assembly (10) includes a first insulating film (110) and a second insulating film (120) opposite to each other. The first insulating film (110) is provided with a first buffering via (111). The second insulating film (120) is provided with a second buffering via (121). An orthographic projection of the second buffering via (121) on the first insulating film (110) and the first buffering via (111) do not have overlapping regions. The first insulating film (110) is further provided with a first buffering groove (112) communicates with the first buffering via (111). The second insulating film (120) is further provided with a second buffering groove (122) communicates with the second buffering via (121). An orthographic projection region of the second buffering groove (122) on the first insulating film (110) at least partially overlaps with the first buffering groove (112).

No. of Pages : 47 No. of Claims : 19

(54) Title of the invention : DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR PROVIDING NOTIFICATIONS AND APPLICATION INFORMATION

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:G06F0003048800, H04L0012580000, H04M0001725000, G06F0003048200, H04L0012260000</p> <p>:63/340,388</p> <p>:10/05/2022</p> <p>:U.S.A.</p> <p>:NA</p> <p>:NA</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.</p> <p>(72)Name of Inventor : 1)CLARKE, Graham R. 2)WILSON, Eric Lance 3)CLYMER, Andrew P. 4)STACK, Caelan G. 5)FOSS, Christopher P. 6)TYLER, William M. 7)APODACA, Gregory M. 8)SORRENTINO III, William A. 9)DALONZO, Christian X. 10)SOUZA DOS SANTOS, Andre 11)DYE, Alan C. 12)CARRIGAN, Taylor G. 13)WITHERSPOON, Noah A. 14)MARTIN JR., Bobby 15)MELIM, Aaron M.</p>
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(57) Abstract :

DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR PROVIDING NOTIFICATIONS AND APPLICATION INFORMATION A computer system detects one or more inputs to subscribe to updates from 5 a first application for a first event and to subscribe to updates from a second application for a second event. The system displays a user interface. Displaying the user interface includes: when the first event is active and the second event is not active, displaying a first representation of the first event in a first region of the user interface, and updating first information contained in the first representation of the 10 first event based on updates received from the first application; and when the second event is active and the first event is not active, displaying a second representation of the second event in the first region of the user interface, and updating second information contained in the second representation of the second event based on updates received from the second application.

No. of Pages : 568 No. of Claims : 34

(54) Title of the invention : DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR PROVIDING NOTIFICATIONS AND APPLICATION INFORMATION

<p>(51) International classification :G06F0003048800, G06F0003048400, G06F0003048100, G06F0003048200, H04M0001725000</p> <p>(31) Priority Document No :63/340,388</p> <p>(32) Priority Date :10/05/2022</p> <p>(33) Name of priority country :U.S.A.</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.</p> <p>(72)Name of Inventor : 1)CLARKE, Graham R. 2)WILSON, Eric Lance 3)CLYMER, Andrew P. 4)STACK, Caelan G. 5)FOSS, Christopher P. 6)TYLER, William M. 7)APODACA, Gregory M. 8)SORRENTINO III, William A. 9)DALONZO, Christian X. 10)SOUZA DOS SANTOS, Andre 11)DYE, Alan C. 12)CARRIGAN, Taylor G. 13)WITHERSPOON, Noah A. 14)MARTIN JR., Bobby 15)MELIM, Aaron M.</p>
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(57) Abstract :

DEVICES, METHODS, AND GRAPHICAL USER INTERFACES FOR PROVIDING NOTIFICATIONS AND APPLICATION INFORMATION A computer system displays a first version of a first user interface that includes first 5 user interface objects displayed concurrently with a first background. The first user interface objects include content from a first plurality of applications. In response to detecting a first input, when the first input includes movement in a first direction, the system replaces display of the first version of the first user interface with a second user interface that includes representations of a second plurality of 10 applications. When the first input includes second movement in a second direction, the system replaces display of the first version of the first user interface with display of a second version of the first user interface that includes second user interface objects displayed with a second background. The second user interface objects correspond to a third plurality of applications and include content from the third 15 plurality of applications. A computer system displays a first user interface for changing a wake user interface. While displaying the first user interface, the device displays a first representation of the wake user interface and a first representation of a home user interface. The first representation of the wake user interface corresponds to first user interface 20 settings including a first wake user interface background. The first representation of the home user interface corresponds to first home user interface settings including a first home user interface background. The system detects selection of a respective representation of the wake user interface. When the first representation of the wake user interface is selected, the system sets the wake user interface to the 25 first wake user interface settings and sets the home user interface of the computer system to the first home user interface settings. A computer system displays a first user interface for configuring a wake user interface. The first user interface displays a first representation of a first version of 457 the wake user interface illustrating a first plurality of editable user interface objects overlaying a first background. While displaying the first user interface, the system detects a first input. In response, when the first input meets first criteria, the system displays a second user interface for editing a first user interface object of the first plurality of editable user interface objects. The first user interface object is selected 5 based on a location of the first input. When the first input meets second criteria, the system updates the first user interface to display a second representation of a second version of the wake user interface having a second plurality of editable user interface objects overlaying a second background. 10 A computer system displays a plurality of notifications. When the computer system has a first notification mode enabled, the computer system displays a representation of the plurality of notifications in a first configuration in a first region. When the computer system has a second notification mode enabled, the computer system displays the representation in a second configuration in a second region smaller than 15 the first region. The computer system detects a first user input on the representation, and in response, if the first user input meets first criteria and the representation is displayed with the first configuration, the computer system scrolls notifications in the first region in accordance with the first user input. If the first user input meets the first criteria and the representation is displayed with the second configuration, 20 the computer system scrolls the notifications in the in a third region, in accordance with the first user input. A computer system displays a wake user interface including a representation of a first plurality of notifications in a first configuration. The computer system detects a first user input, and in response, displays the representation of the first plurality 25 of notifications in a second configuration that is different from the first configuration if the first user input meets first criteria. Otherwise, the computer system maintains display of the representation of the first plurality of notifications in the first configuration. After detecting the first user input, the computer system detects occurrence of a condition that causes the computer system to redisplay the 30 458 wake user interface, and in response, if the first user input met the first criteria, the computer system displays a representation of a second plurality of notifications in the second configuration. Otherwise, the computer system displays the representation of the second plurality of notifications in the first configuration. 5 A computer system displays a first user interface that includes respective selectable representations of a plurality of categories for media items associated with the computer system, including at least a first selectable representation of a first category and a second selectable representation of a second category. While displaying the first user interface for configuring the system user interface, the 10 computer system detects a first input selecting a set of one or more of the plurality of categories. After the set of one or more of the plurality of categories were selected by the first input, the computer system displays the system user interface, wherein displaying the system user interface includes, over time displaying the system user interface with a plurality of versions of the first background that respectively 15 include media items selected from media items in respective categories in the set of one or more of the plurality of categories. A computer system detects occurrence of a first condition that causes the computer system to change an appearance of the system user interface based on a first 20 combination of a first background media item and a first filter for the system user interface. In accordance with a determination that the first combination of the first background media item and the first filter meets first criteria, the computer system applies a first version of the first filter to the first background media item to create a second version of the system user interface. In accordance with a determination 25 that the first combination of the first background media item and the first filter meets second criteria, the computer system, applies a second version of the first filter to the first background media item to create the second version of the system user interface. 30 459 A computer system, while displaying a wake screen user interface that corresponds to a restricted state of the computer system, detects a first user input, including a request to dismiss the wake screen user interface. The computer system moves a plurality of graphical elements in a first direction in accordance with the first user input, while increasing a spatial gap between the plurality of graphical elements. In 5 accordance with a determination that the request to dismiss the wake screen user interface included in the first user input meets first criteria, the computer system replaces display of the wake screen user interface that corresponds to the restricted state of the computer system with display of a second user interface different from the wake screen user interface, including displaying the plurality of graphical 10 elements in the second user interface while reducing the spatial gap between the plurality of graphical elements.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054347 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : Method And System For Processing A Set Of Signals Received By A Transducer Element

(51) International classification	:H04L0009060000, H04R0001100000, A61B0008080000, H04J0014020000, B06B0001020000	(71) Name of Applicant : 1)SUPERSONIC IMAGINE Address of Applicant :Zac de l'Enfant 135 Rue Emilien Gautier, 13290 Aix-en-Provence, France France
(31) Priority Document No	:21315189.7	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)FRASCHINI, Christophe
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for processing a set of signals of a transducer device comprising a respective set of transducer elements, the method comprising the following steps: a processing step in which the received set of signals is processed to a plurality of synthetic waves, and an output step in which the plurality of synthetic waves is outputted through a plurality of channels. Fig. 1

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054353 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TRANSFER DEVICE

(51) International classification :B64C0013040000,
B60K0006365000,
F16H0003660000,
B60K0006445000,
B60K0006387000
(31) Priority Document No :2021-161815
(32) Priority Date :30/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)SUZUKI MOTOR CORPORATION

Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611 Japan

(72)Name of Inventor :

1)Hiroki AKATSUKA

2)Yusuke KAMIYA

3)Tsuyoshi FUKAYA

4)Atsushi ITO

5)Hideya OSAWA

6)Takuya FUJIMINE

7)Masato KAWABE

8)Yasushi SHIOIRI

(57) Abstract :

A transfer device (1) includes a first axis member (21), a second axis member (22) disposed in parallel to the first axis member (21), and a third axis member (23R) disposed in parallel to the second axis member (22), a fourth axis member (23F) disposed coaxially with the third axis member (23R), a transmission mechanism (28) configured to transmit rotation of the second axis member to the third axis member (23R), an engagement mechanism (29) capable of engaging the third axis member (23R) and the fourth axis member (23F), a rotating electrical machine (3), a fifth axis member (24) disposed coaxially with the rotating electrical machine (3), and a sixth axis member (25) that is disposed in parallel to the second axis member (22) and the fifth axis member (24) and configured to decelerate rotation of the fifth axis member (24) and transmit it to the second axis member (22). (Figure 2)

No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054357 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE ENGINE MOUNT BRACKET

(51) International classification :B60K0005120000,
F16F0013100000,
F02F0007000000,
B62D0021090000,
F16F0001380000

(31) Priority Document No :2021-157915

(32) Priority Date :28/09/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan

(72)Name of Inventor :
1)Masanori UEMURA

(57) Abstract :

VEHICLE ENGINE MOUNT BRACKET 5 Provided is a vehicle engine mount bracket that can support an engine mount with high rigidity. A vehicle engine mount bracket 100 to be installed in a power unit mounting room of a vehicle and support an engine mount. The vehicle engine mount bracket 100 includes a lower member 110 that is 10 disposed at a side member 108, a curved recess 120 that is formed in a predetermined region of a top face portion 116 of the lower member 110 and is recessed in a cylindrical shape in the vehicle width direction, a tubular member 112 that is formed in a tubular shape, disposed in the curved 15 recess 120, and holds a bush portion of the engine mount, a front bracket 114 that connects a front side of the tubular member 112 to the top face portion of the lower member 110, and a rear bracket 118 that connects a rear side of the tubular member 112 to the top face portion 116 of the lower 20 member 110.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056983 A

(19) INDIA

(22) Date of filing of Application :04/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMPROVED MANAGEMENT, DIAGNOSTICS, AND SECURITY FOR NETWORK COMMUNICATIONS

(51) International classification :G06F0021600000,
H04L0041000000,
H04L0009080000,
H04L0069329000,
H04L0009320000

(31) Priority Document No :63/252,066
(32) Priority Date :04/10/2021
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)INSIDE PRODUCTS, INC.
Address of Applicant :36A Upper Circle, Carmel Valley,
California, 93924, United States of America U.S.A.

(72)**Name of Inventor :**
1)Nalini Joshi Elkins

(57) Abstract :

IMPROVED MANAGEMENT, DIAGNOSTICS, AND SECURITY FOR NETWORK COMMUNICATIONS ABSTRACT A system and method securely and selectively provide visibility along a communication path in end-to-end communications, while ensuring security of the transmission, and while further ensuring that unauthorized persons cannot view network packets. A separate parallel channel is used to provide visibility into data in transit to authorized parties, without revealing such data to unauthorized parties. In at least one embodiment, the separate parallel channel is implemented using a secure group messaging platform. In addition, all needed equipment is integrated in the end-to-end connection across layers and protocols into the secure messaging group. Secure, scalable messaging groups can be based on a ratchet tree protocol so as to guarantee forward as well as post-compromise security.

No. of Pages : 107 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056993 A

(19) INDIA

(22) Date of filing of Application :04/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BANKNOTE PROCESSING DEVICE AND MONITORING SYSTEM OF BANKNOTE PROCESSING DEVICE

(51) International classification	:G07D0011500000, H04N0005210000, G07D0011140000, G07D0011400000, G02B0006340000	(71)Name of Applicant : 1)Hitachi Channel Solutions, Corp. Address of Applicant :1-6-3 Osaki Shinagawa-ku, Tokyo 141-8576, Japan Japan
(31) Priority Document No	:2021-173485	(72)Name of Inventor :
(32) Priority Date	:22/10/2021	1)Akira NISHINO
(33) Name of priority country	:Japan	2)Masayoshi ATOJI
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT BANKNOTE PROCESSING DEVICE AND MONITORING SYSTEM OF BANKNOTE PROCESSING DEVICE The banknote processing device includes a first display 5 device that displays a processing situation of a banknote sorting device and a second display device that displays an internal state of a banknote bundling device.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057048 A

(19) INDIA

(22) Date of filing of Application :04/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR PRODUCING HOLLOW MOLDED ARTICLE AND INJECTION STRETCH BLOW MOLDING MACHINE

(51) International classification :B29C0049060000,
B29C0049000000,
B29C0049120000,
B29K0067000000,
B29K0105000000

(31) Priority Document No :2021-170110

(32) Priority Date :18/10/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)AOKI TECHNICAL LABORATORY, INC.
Address of Applicant :4963-3, Oaza Minamijo, Sakakimachi,
Hanishina-gun, Nagano 3890603, Japan Japan

(72)Name of Inventor :
1)HASEGAWA Kazuhide

(57) Abstract :

When a preform having been molded while released from a mold at an earlier timing in an injection stretch blow molding machine is stretched and blow molded, the bottom of the preform is prevented from rupturing and the bottom of a hollow molded article is prevented from being uneven in wall thickness to produce such a hollow molded article without defect bottom by the injection stretch blow molding machine. A method for producing a hollow molded article includes: an injection molding process of injection molding a preform; and a blow molding process of blow molding the preform to obtain a hollow molded article. The blow molding process allows a tip of a stretching rod cooled to a temperature between 50 [°C] and 90 [°C] to be brought into contact with the bottom of the preform in a softened state obtained in the injection molding process, and to press down the bottom of the preform while the bottom is cooled.

No. of Pages : 40 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057186 A

(19) INDIA

(22) Date of filing of Application :06/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR DETERMINING A PHYSICAL CHARACTERISTIC OF A MEDIUM

(51) International classification	:G01S0015890000, G01S0007520000, A61B0008080000, G01N0029240000, G03F0007200000	(71) Name of Applicant : 1)SUPERSONIC IMAGINE Address of Applicant :Zac de l'Enfant 135 Rue Emilien Gautier, 13290 Aix-en-Provence, France Aix-en-Provence France
(31) Priority Document No	:21315228.3	(72) Name of Inventor :
(32) Priority Date	:29/10/2021	1)LAMBERT, William
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method method for determining a physical characteristic of a medium (11), comprising: processing (d) ultrasound signal data of the medium associated to at least three emitted ultrasound pulses for respectively providing at least three in-phase and quadrature phase (IQ) data sets I1(r), I2(r), I3(r), the at least three emitted ultrasound pulses comprising a first emitted pulse having a first intensity and at least two supplementary emitted pulses having each a second intensity, wherein a sum of the second intensities corresponds to the first intensity, determining (e) the physical characteristic as a function of: a first phase lag between the first IQ data set I1(r) and a sum of the at least two further IQ data sets I2(r), I3(r), and/or a second phase lag between the at least two further IQ data sets I2(r), I3(r).

No. of Pages : 36 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057196 A

(19) INDIA

(22) Date of filing of Application :06/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DISPLAY DEVICE FOR IMPROVING DISPLAYING QUALITY ANDDISPLAY PANEL THEREOF

(51) International classification	:G02B0005300000, G09G0003200000, G02F0001133500, G02F0001134300, G06F0003041000	(71) Name of Applicant : 1)LG DISPLAY CO., LTD Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0145135	(72) Name of Inventor :
(32) Priority Date	:28/10/2021	1)Shin, Mihee
(33) Name of priority country	:Republic of Korea	2)Lee, SeungHyun
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT DISPLAY DEVICE FOR IMPROVING DISPLAYING QUALITY AND DISPLAY PANEL THEREOF A display device may include a display panel (100) including a first area (HA, 5 A1) corresponding to a first resolution, a second area (BA, A2) corresponding to a second resolution lower than the first resolution, and a third area (LA, A3) corresponding to a third resolution lower than the second resolution, and a sensor (120, 800) disposed under the panel (100) to overlap at least a portion of the third area (LA, A3). Pixels are disposed in the first area (HA, A1) based on a first 10 arrangement corresponding to a first pixel group (P1) including sub-pixels. Pixels are disposed in the second area (BA, A2) based on a second arrangement corresponding to a second pixel group (P2) in which at least one of the sub-pixels of the first pixel group (P1) is omitted. Pixels are disposed in at least a part of the third area (LA, A3) based on the first arrangement. A light transmittance portion (AG) is disposed in 15 another part of the third area (LA, A3).

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053261 A

(19) INDIA

(22) Date of filing of Application :17/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BANKNOTE PROCESSING DEVICE AND AUTOMATIC TRANSACTION DEVICE

(51) International classification	:G07F0019000000, G07D0011140000, G07D0011260000, G06Q0040020000, G07D0011160000	(71)Name of Applicant : 1)Hitachi Channel Solutions, Corp. Address of Applicant :1-6-3 Osaki Shinagawa-ku, Tokyo 141- 8576, Japan Japan
(31) Priority Document No	:2021-176406	(72)Name of Inventor :
(32) Priority Date	:28/10/2021	1)Shintaro SHIBATA
(33) Name of priority country	:Japan	2)Masayasu UENO
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

BANKNOTE PROCESSING DEVICE AND AUTOMATIC TRANSACTION DEVICE The banknote processing device includes: a roller and a lever configured to prevent collision of the banknotes 5 conveyed from an upper side of a deposit/withdrawal port; a wheel configured to convey the banknotes to the accumulation region; and a pressing plate configured to retain the banknotes conveyed into the accumulation region by the wheel, the roller, and the lever in the accumulation region.

No. of Pages : 31 No. of Claims : 13

(54) Title of the invention : BATTERY

(51) International classification :H01M0002120000,
H01M0002020000,
H01M0002040000,
B29C0065000000,
F01D0025240000

(31) Priority Document No :202210699635.X

(32) Priority Date :20/06/2022

(33) Name of priority country :China

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CALB CO., LTD.
Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China

(72)Name of Inventor :
1)ZHAO, HAO
2)XU, JIULING
3)ZHANG, YONGJIE
4)ZHANG, LULU

(57) Abstract :

A battery includes a battery casing (20) and an explosion-proof valve (10). The battery casing (20) includes a first casing member (25) and a second casing member (26), and the first casing member (25) and the second casing member (26) are welded to form a welded connection region (27) between the first casing member (25) and the second casing member (26). The welded connection region (27) includes a first region (271), a second region (272), and a corner region (273), and two ends of the corner region (273) are respectively connected to the first region (271) and the second region (272). The explosion-proof valve (10) is disposed at a corner position of a surface of the first casing member (25) and adjacent to the welded connection region (27). FIG. 7

No. of Pages : 40 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053360 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONNECTION ASSEMBLY AND THERMOREGULATION ASSEMBLY

(51) International classification :A61M0005310000,
F16L0019020000,
H01R0013516000,
F16B0012440000,
G02B0027010000

(31) Priority Document No :2110074

(32) Priority Date :24/09/2021

(33) Name of priority country :France

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)STAUBLI FAVERGES
Address of Applicant :Place Robert Staubli Faverges 74210
FAVERGES- SEYTHENEX, France France

(72)Name of Inventor :
1)DURIEUX, Christophe
2)MOREL, Frédéric

(57) Abstract :

ABSTRACT CONNECTION ASSEMBLY AND THERMOREGULATION ASSEMBLY The connection assembly (100) comprises a flange 140 with at least two internal orifices (150) crossing through and centered on orifice axes (A150) parallel to each other, a front surface (142) and a rear surface 144 parallel to a transverse plane (P140) transverse to the orifice axes (A150), at least two fluidic coupling elements (170), each comprising a male body (172) received in a corresponding internal orifice, and a cover (120), configured for being attached to a support (110) in a mounted configuration of the connection assembly. According to the invention, the flange can move with respect to the cover according to a movement supported by the transverse plane, whereas for each male body, a second gasket (188) is interposed radially between the male body and an internal radial surface (S162) of the corresponding internal orifice, each male body being mounted in the corresponding internal orifice and can be tilted with respect to the corresponding orifice axis.

No. of Pages : 37 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053434 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE INSTRUMENT PANEL STRUCTURE

(51) International classification :B62D0025140000,
B60K0035000000,
B60R0021045000,
B60K0037000000,
B60K0037020000
(31) Priority Document No :2021-158943
(32) Priority Date :29/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(72)Name of Inventor :
1)Yuya KOMINE

(57) Abstract :

VEHICLE INSTRUMENT PANEL STRUCTURE Provided is a vehicle instrument panel structure capable of reliably preventing a display device from falling forward and a frame member from coming off an instrument panel even when an occupant collides with the display device installed in front of the occupant. A vehicle instrument 10 panel structure 100 includes: a first opening 108 that is provided in an instrument panel 102 and is open upward; and a display device 106 that has a screen 110 protruding upward from the first opening and directed toward the rear of a vehicle; a frame member 114 that covers the screen of the 15 display device; and a base member 118 that is disposed between the display device and the frame member, is fixed to the instrument panel, and holds the frame member, and the frame member includes: an upper-side portion 132 that has a second opening 138 for exposing the screen, and is to be 20 joined to the base member around the second opening; a lower-side portion 134 that is located below the upper-side portion; and a fixing portion 136 that protrudes downward from the lower-side portion, and is to be fixed to the instrument panel.

No. of Pages : 30 No. of Claims : 6

(54) Title of the invention : ELECTROLUMINESCENT DISPLAY APPARATUS

(51) International classification	:H01L0027320000, H01L0051520000, G09G0003323300, H01L0051500000, H05B0033260000	(71)Name of Applicant : 1)LG Display Co., Ltd. Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021- 0127998	(72)Name of Inventor : 1)LEE, Chang Woo
(32) Priority Date	:28/09/2021	2)JUNG, Jin Hyun
(33) Name of priority country	:Republic of Korea	3)KIM, Sun Yoon
(86) International Application No	:NA	4)KIM, Hyun Wook
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ELECTROLUMINESCENT DISPLAY APPARATUS An electroluminescent display apparatus including a pixel (PXL) connected 5 to a detection line (SIO); a panel driving circuit (PDRV) configured to off-drive a driving element (DT) included in the pixel (PXL) in a detection interval (B, B',A3); a reference voltage generating circuit (PGMA) configured to supply a detection reference voltage (PCL) to the detection line (SIO) prior to the detection interval (B, B',A3), generate a first comparator reference voltage (TH-HIGH) which is 10 higher than the detection reference voltage (PCL) in the detection interval (B, B',A3), and generate a second comparator reference voltage (TH-LOW) which is lower than the detection reference voltage (PCL) in the detection interval (B, B',A3); a comparator (COMP) configured to compare the first comparator reference voltage (TH-HIGH) with a voltage (VSIO) of the detection line (SIO) to generate a first 15 comparison output (VCO1) at a first timing (Tx, T1, T1') of the detection interval (B, B',A3) and comparing the second comparator reference voltage (TH-LOW) with the voltage (VSIO) of the detection line (SIO) to generate a second comparison output (VCO2) at a second timing (Ty, T2, T2') of the detection interval (B, B',A3); and a logic circuit (BPCL) configured to determine an occurrence of a defect of the 20 pixel based on the first comparison output (VCO1) and the second comparison output (VCO2) and to perform dark spot processing of the defective pixel (W).

No. of Pages : 77 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055421 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CLUTCH CONTROL DEVICE

(51) International classification	:F16D0048060000, F16D0048020000, B60W0010020000, F16D0048080000, F16H0061140000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556, Japan
(31) Priority Document No	:2021-160342	(72) Name of Inventor :
(32) Priority Date	:30/09/2021	1)RYUZAKI, Tatsuya
(33) Name of priority country	:Japan	2)TSUKADA, Yoshiaki
(86) International Application No	:NA	3)ONO, Junya
Filing Date	:NA	4)OZEKI, Takashi
(87) International Publication No	: NA	5)FURUSATO, Koichi
(61) Patent of Addition to Application Number	:NA	6)KAIBE, Yuma
Filing Date	:NA	7)TSUZUKI, Ryohei
(62) Divisional to Application Number	:NA	8)FUJIMOTO, Yasushi
Filing Date	:NA	

(57) Abstract :

A clutch control device includes a clutch apparatus configured to connect and disconnect power transmission between an engine and a gearbox, a clutch actuator configured to output a driving force to actuate the clutch apparatus, and an ECU 5 configured to drive the clutch actuator, and the ECU performs engine stalling avoiding control which decreases a clutch capacity when a reduction speed of an engine rotational speed becomes a predetermined threshold (v 1) or more and the engine rotational speed becomes a predetermined engine stalling determination value (dOI) or less.

No. of Pages : 54 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055423 A

(19) INDIA

(22) Date of filing of Application :27/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLE RIDING VEHICLE

(51) International classification	:B62J0099000000, B62K0011040000, B62M0009160000, B60K0015030000, B68C0001020000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Japan
(31) Priority Document No	:2021-169136	(72)Name of Inventor : 1)MINE, Keigo
(32) Priority Date	:14/10/2021	2)OBA, Yusuke
(33) Name of priority country	:Japan	3)FUKUI, Yukito
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a saddle riding vehicle where a battery can be fixed at a low cost. [Solution] In a saddle riding vehicle on which plural kinds of batteries having different shapes from each other are mountable, the saddle riding vehicle including: a vehicle part on which any one of the plural kinds of batteries is mountable; and plural kinds of battery fixing jigs where any one of the plural kinds of battery fixing jigs fixes the any one of the plural kinds of batteries to the vehicle part corresponding to the shape of the battery, wherein the battery fixing jigs include: a first fixing jig 50 that is made of a material having rubber property; and a second fixing jig 52 that is made of a material different from the material of which the first fixing jig 50 is made. (Selected drawing) FIG. 2

No. of Pages : 44 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055449 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PIXEL AND DISPLAY DEVICE INCLUDING THE SAME

(51) International classification	:G09G0003360000, G06F0003041000, G09G0005391000, G06F0003042000, G06F0003044000	(71) Name of Applicant : 1)Samsung Display Co., LTD. Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea Republic of Korea
(31) Priority Document No	:10-2021-0128095	(72) Name of Inventor :
(32) Priority Date	:28/09/2021	1)Hae Ju YUN
(33) Name of priority country	:Republic of Korea	2)Soo Hyun MOON
(86) International Application No	:NA	3)Woo Guen JANG
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PIXEL AND DISPLAY DEVICE INCLUDING THE SAME 5 A display device (DD) includes a base layer (BSL), a color filter layer (CFL) on the base layer (BSL) and including a color filter (CF) located at an emission area (EA), a light emitting element layer (LDL) on the color filter layer (CFL) and including a light emitting element (LD) located at the emission area (EA), a first electrode (ELT1) on a first end (EP1) of the light emitting element (LD), and a second electrode (ELT2) on a 10 second end (EP2) of the light emitting element (LD), a circuit layer (CRL) on the light emitting element layer (LDL) and including circuit elements and lines (LI) connected to the first electrode (ELT1) and the second electrode (ELT2), and pads (PD) on the circuit layer (CRL) and connected to the lines (LI), and the first electrode (ELT1) and the second electrode (ELT2) may include a reflective conductive material.

No. of Pages : 80 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054381 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DRIVING PART OF WARM AIR HEATER AND WARM AIR

(51) International classification	:G02F0001134500, F24H0003040000, H05K0007200000, F24F0013140000, A45D0020100000	(71)Name of Applicant : 1)Shanghai Kohler Electronics, Ltd. Address of Applicant :1955, Fengxiang Road, Baoshan District, Shanghai, China CHINA China
(31) Priority Document No	:202122324680	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)Houyong XU
(33) Name of priority country	:China	2)Yan SHE
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DRIVING PART OF WARM AIR HEATER AND WARM AIR HEATER The utility model provides a driving part of a warm air heater and the warm air heater, wherein the driving part comprises a driving circuit board, and a silicon-controlled element is arranged on the driving circuit board; the driving circuit board is arranged in an air duct of the warm air heater, and the driving circuit board is positioned at the upstream of the heating part or is flush with the heating part, wherein the upstream or the flush is based on the direction of air flow in the air duct. The driving part of the utility model utilizes the fan to cool the silicon-controlled element without adding large-area radiating fins, thus reducing the cost of the driving part, and the driving circuit board is not arranged on the main control circuit board anymore, thus realizing the miniaturization of the main control part.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054386 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : WATER DELIVERY INTEGRATED SHOWER SEAT

(51) International classification	:A47K0003280000, A61G0005140000, H01L0051000000, B05B0001180000, B05B0001160000	(71)Name of Applicant : 1)Kohler Co Address of Applicant :444 Highland Drive, Kohler, WI 53044 USA U.S.A.
(31) Priority Document No	:63/247513	(72)Name of Inventor :
(32) Priority Date	:23/09/2021	1)Hiroyuki Chansol Muraoka
(33) Name of priority country	:U.S.A.	2)Lun Cheak Tan
(86) International Application No	:NA	3)Ka Ming Larry Yuen
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WATER DELIVERY INTEGRATED SHOWER SEAT A shower system includes shower frame, a plurality of nozzles, and a shower seat. The shower frame includes a plurality of substantially coplanar frame segments forming at least part of a perimeter of the shower frame. The plurality of nozzles are distributed across the plurality of substantially coplanar frame segments and configured to spray water inward from the perimeter of shower frame. The shower seat is pivotally connected to the shower frame and configured to pivot between a seated position in which the shower seat is substantially perpendicular to the shower frame and a standing position in which is substantially parallel to the shower frame.

No. of Pages : 48 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054395 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ARCHITECTURE FOR DIFFERENTIAL DRIVE AND SENSE TOUCH TECHNOLOGY

(51) International classification	:G06F0003044000, G06F0003041000, G06F0003047000, H05K0003100000, G02F0001133300	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,620	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)VAZE, Sagar R.
(33) Name of priority country	:U.S.A.	2)YOUSEFPOR, Marduke
(86) International Application No	:NA	3)NAYYAR, Amit
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ARCHITECTURE FOR DIFFERENTIAL DRIVE AND SENSE TOUCH TECHNOLOGY Differential driving and/or sensing can reduce noise in a touch screen. In some examples, the touch screen can include column and row electrodes routed vertically in the active area. In some examples, the touch electrodes and/or routing traces can be implemented using metal mesh in first and second metal layers. To improve optical performance, overlapping portions of metal mesh can be designed to provide an appearance of uniform width/area. In some examples, a dielectric layer can have an increased thickness and/or a reduced dielectric constant, and/or metal mesh in the first metal layer can be flooded with a transparent conductive material. In some examples, routing traces can be disposed beneath touch electrodes and/or metal mesh for touch electrodes can be flooded with a transparent conductive material without flooding metal mesh for routing traces. In some examples, touch electrodes can be interleaved within a touch node to improve differential cancelation.

No. of Pages : 225 No. of Claims : 69

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054399 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR DETECTING WIRELESS CHARGER COUPLING

(51) International classification	:H02J0007020000, H02J0050900000, H02J0007000000, H02J0050100000, H02J0050120000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/247,939	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)ALLAN, William R.
(33) Name of priority country	:U.S.A.	2)DUAN, Guangwu
(86) International Application No	:NA	3)GUO, Jian
Filing Date	:NA	4)MUDIVARTHI, Chaitanya
(87) International Publication No	: NA	5)PHAM, Long T.
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYSTEMS AND METHODS FOR DETECTING WIRELESS CHARGER COUPLING Circuitry in the electronic device may use a plurality of magnetic sensors to detect an alternating current signal transmitted by the wireless charger and/or to detect a magnetic field generated by one or more magnets in the wireless charger. The circuitry may determine a position of the wireless charger relative to a wireless power transfer coil in the electronic device and provide feedback to guide users in attaching the wireless charger to the correct position on the electronic device, including such as visual indications on a device display.

No. of Pages : 35 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057263 A

(19) INDIA

(22) Date of filing of Application :06/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY PACK, ASSEMBLY METHOD OF BATTERY PACK, AND DISASSEMBLY METHOD OF BATTERY PACK

(51) International classification	:H01M0050200000, H01M0010613000, H01M0050213000, H01M0010052500, H01M0010625000	(71) Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210567058.9	(72) Name of Inventor :
(32) Priority Date	:23/05/2022	1)ZHAO, DONG
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery pack, an assembly method thereof, and a disassembly method thereof are provided. The battery pack includes a battery box (10), a first battery assembly, a second battery assembly, and a separator (40). The separator (40) is located between the second battery assembly and the first battery assembly. An expansion gap is formed between a first surface (21) and a second surface (31), the expansion gap gradually expands from a second direction, and/or an expansion structure is formed between a third surface (41) and a fourth surface (42), the expansion structure gradually expands from a second direction. The second direction is perpendicular to the first direction, and the second direction extends from a bottom surface of the battery box (10) toward a top surface of the battery box (10).

No. of Pages : 34 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057290 A

(19) INDIA

(22) Date of filing of Application :06/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TOILET SEAT HINGE ASSEMBLY WITH AIR CLEANER

(51) International classification	:A47K0013120000, A47K0013260000, A47K0013300000, A47K0010480000, A61L0002220000	(71)Name of Applicant : 1)KOHLER CO Address of Applicant :444 Highland Drive, Kohler, WI 53044 U.S.A.
(31) Priority Document No	:63/252697	(72)Name of Inventor :
(32) Priority Date	:06/10/2021	1)Jeffrey T. Laundre
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TOILET SEAT HINGE ASSEMBLY WITH AIR CLEANER A toilet seat assembly encloses a toilet bowl. The toilet seat assembly includes a toilet seat, a fan, a wick compartment, an atomizer, and at least one baffle. The toilet seat rotatably is connected to the toilet bowl via a hinge. The fan is configured to direct a flow of air into a hinge structure. The wick compartment in the hinge structure includes a sanitizing fluid. The atomizer is configured to spray fine particles of the sanitizing fluid into the flow of air from the fan. The at least one baffle is configured to direct the flow of air including the fine particles of the sanitizing fluid toward a surface of the toilet seat.

No. of Pages : 65 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057356 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR CALIBRATING A TEDS COMPLIANT CONNECTED ENERGY METER

(51) International classification	:G01R0035040000, A61B0018140000, B60W0010020000, A61B0018000000, A61B0005157000	(71) Name of Applicant : 1)Schneider Electric USA, Inc. Address of Applicant :One Boston Place, Suite 2700, Boston, Massachusetts 02108, United States of America U.S.A.
(31) Priority Document No	:17/496,408	(72) Name of Inventor :
(32) Priority Date	:07/10/2021	1)GUNN, Colin, N.
(33) Name of priority country	:U.S.A.	2)HUBER, Benedikt Theodor
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEMS AND METHODS FOR CALIBRATING A TEDS COMPLIANT CONNECTED ENERGY METER 5
According to aspects of the disclosure, a sensing system includes at least one sensor configured to provide an output signal indicative of a sensed property, an interface configured to be coupled to a computing device, and a processor coupled to the interface, the processor being configured to provide, to the computing device via the interface, a first Transducer Electronic 10 Data Sheet (TEDS) template indicative of a first variable of the sensed property, and provide, to the computing device via the interface, a second TEDS template indicative of a second variable of the sensed property.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057389 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONTINUOUSLY VARIABLE TRANSMISSION

(51) International classification	:F16H0063180000, F16H0015520000, F16H0013060000, F16H0013080000, G02B0026100000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-171663	(72)Name of Inventor : 1)Daisuke NAKA
(32) Priority Date	:20/10/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Document Name] Abstract [Abstract] [Problem to be Solved] There is provided a continuously variable transmission (1) that can increase the transmission torque and enables easy changing of the transmission ratio. 5 [Solution] An output shaft (3) is disposed coaxially on one end portion side of an input shaft (2). A continuously variable transmission (1) includes a shift drum (34) disposed on the output shaft (3) side of a sun roller (2A), a carrier (4) disposed on the input shaft (2) side of the sun roller (2A), a first supporting unit (46) provided in the shift drum (34) and swingably 10 supporting an end portion of a support shaft (16) on the output shaft (3) side, and a second supporting unit (47) provided in the carrier (4), swingably supporting an end portion of the support shaft (16) on the input shaft (2) side, and including a self-aligning bearing (17). The shift drum (34) and the carrier (4) are allowed to move in the axial direction of the input shaft (2) and prevented from rotating around the input shaft (2). The first supporting 15 unit (46) includes a spherical guide roller (35) swingably held inside a groove (34A) formed in the shift drum (34), and a bearing (54) provided in the guide roller (35). [Selected Figure] Figure 1

No. of Pages : 42 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053435 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE FRONT STRUCTURE

(51) International classification :B62D0025080000,
B62D0021150000,
H01L0029660000,
B62J0006020000,
B60Q0001040000
(31) Priority Document No :2021-160505
(32) Priority Date :30/09/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(72)Name of Inventor :
1)Atsushi NAKAMURA

(57) Abstract :

VEHICLE FRONT STRUCTURE Provided is a vehicle front structure with an air intake cover that can easily bend in an up-and-down direction and deform when an external force is received from above. A vehicle front structure 100 according to the present invention includes: an air intake portion 102 10 provided on a dash panel 106 that separates a vehicle front portion and a vehicle cabin, the air intake portion 102 taking in air via an air conditioning unit 119 in the vehicle cabin; and an air intake cover 104 fixed to the dash panel that forms a flow path for guiding, to the air intake 15 portion, outside air that has entered from a cowl portion 123; wherein the air intake cover includes an upper wall 124 disposed above the air intake portion and defining an upper side of the flow path, and a pair of side walls 126, 128 that extend continuously from both ends of the upper wall in 20 a vehicle width direction to the dash panel and define sides in a vehicle width direction of the flow path, the upper wall extends to a vehicle front side of edges 172, 190 of the pair of side walls on the dash panel, and front edges 174, 184 of the pair of side walls each include an inclined 25 portion 176, 186 that extends toward the upper wall while extending toward the vehicle front side from the dash panel.

No. of Pages : 51 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053455 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CHANGE MECHANISM OF TRANSMISSION

(51) International classification	:F16D0021060000, F16D0025120000, F01L0001344000, F03D0009250000, F16H0037080000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan
(31) Priority Document No	:2021-158460	(72)Name of Inventor : 1)TAKAHASHI Akira
(32) Priority Date	:28/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a change mechanism of a transmission capable of reducing the size of a shifter arm and a master arm, reducing the movement areas of these, reducing the size of an entire engine unit, and reducing the manufacturing cost. As a biasing member that exerts a biasing force between a master arm 62 and a shift arm 63 and biases engagement portions 63a and 63b of the shift arm 63 toward feed pins 85 of the shift drum 55 by applying a biasing force to the shift arm 63, a torsion spring 65 that is layered on a coupling member 64 coupling the master arm 62 and the shift arm 63 on an axis parallel to an axial direction of the shift drum 55 is used to reduce the size of the entire engine unit and reduce the manufacturing cost.

No. of Pages : 47 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053468 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : UPLINK BEAM TRAINING ON NEIGHBOR CELL

(51) International classification	:H04B0007060000, H04W0072040000, H04B0007080000, H04L0005000000, H04W0024100000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,587	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)CUI, Jie
(33) Name of priority country	:U.S.A.	2)ZHANG, Dawei
(86) International Application No	:NA	3)SUN, Haitong
Filing Date	:NA	4)HE, Hong
(87) International Publication No	: NA	5)NIU, Huaning
(61) Patent of Addition to Application Number:	NA	6)RAGHAVAN, Manasa
Filing Date	:NA	7)LI, Qiming
(62) Divisional to Application Number	:NA	8)CHEN, Xiang
Filing Date	:NA	9)TANG, Yang
		10)ZHANG, Yushu

(57) Abstract :

UPLINK BEAM TRAINING ON NEIGHBOR CELL Systems and methods are provided for a user equipment to train a transmit beam of a transmission configuration indication (TCI) for a non-serving cell. A system may use uplink (UL) reference signal (RS) based transmit (Tx) beam training with a target non-serving cell. The Target non-serving cell may measure the UL RS and determine a best Tx beam. The system may coordinate information regarding the best Tx beam to update a TCI at the UE for the target non-serving cell.

No. of Pages : 39 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053469 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : POSTURE TRANSITION DETECTION AND CLASSIFICATION USING LINKED BIOMECHANICAL MODEL

(51) International classification	:A61B0005110000, A61B0005000000, G06K0009620000, G16H0050200000, G06K0009000000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:17/485,212	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)SARATHY, Aditya
(33) Name of priority country	:U.S.A.	2)TU, Xiaoyuan
(86) International Application No	:NA	3)MALAKAR, Suresh B.
Filing Date	:NA	4)LIN, Hui
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT POSTURE TRANSITION DETECTION AND CLASSIFICATION USING LINKED BIOMECHANICAL MODEL

Embodiments are disclosed for user posture transition detection and classification using a linked biomechanical model. In an embodiment, a method comprises: obtaining motion data from a headset worn by a user; selecting features of a linked biomechanical model based on a current posture state; determining at least one probability that a posture transition occurred based on an output of a classifier, where the output of the classifier is based on the selected features and the motion data; determining a posture transition based on the at least one probability; and performing at least one action based on detection of the posture transition

No. of Pages : 34 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055471 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLE-RIDE VEHICLE

(51) International classification :B62K0011040000,
F02B0061020000,
B60K0011040000,
B25J0015000000,
B62D0025080000

(31) Priority Document No :2021-162135

(32) Priority Date :30/09/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)HONDA MOTOR CO., LTD.
Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-
ku, Tokyo 107-8556 Japan Japan

(72)Name of Inventor :
1)Ryoji FUJIMOTO
2)Masayuki HIRAMARU

(57) Abstract :

An object is to provide a simple structure to fix an engine and a radiator to a down frame. A saddle-ride vehicle includes: a head pipe; a frame extending rearward from the head pipe; a down frame (32) extending downward from the head pipe or a front end portion of the frame; an engine (12) and a radiator (37) supported by the down frame (32); and an engine hanger (60) that is attached to the down frame (32) and supports the engine (12), and the engine hanger (60) integrally includes a radiator support portion (63) that supports the radiator (37).

No. of Pages : 48 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.20221405522 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : THROTTLE DEVICE

(51) International classification :F02D0009100000,
F02D0011100000,
F02D0037020000,
G01F0001680000,
G01F0001684000

(31) Priority Document No :2021-173262

(32) Priority Date :22/10/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)MIKUNI CORPORATION

Address of Applicant :13-11, SOTOKANDA 6-CHOME,
CHIYODA-KU, TOKYO 1010021, JAPAN Japan

(72)Name of Inventor :

1)SEKIGUCHI, SHINICHI

2)MIURA, OSAMU

3)KITAOKA, TATSUYA

4)SATO, SHISEI

(57) Abstract :

[Issue] The invention provides a throttle device with increased moldability, reduced cost, increased degree of freedom in fitting, and reduced size, and capable of accurately detecting an intake air temperature. [Solution] A throttle device includes: a throttle body (10), having a main path (12) through which intake air passes, an installation surface (16) formed on an outer wall, and a communication path (17) open on the installation surface to lead to the main path; a throttle valve (30), opening and closing the main path; and a sensor unit (U), attached to the installation surface. The sensor unit (U) includes: a housing (60), having a joining surface (61) joined to the installation surface and a sensor accommodation concave part (62) recessed from the joining surface and leading to the communication path; a circuit substrate (70), embedded in the housing; and a temperature sensor (80), electrically connected to the circuit substrate and disposed to be protrusive in the sensor accommodation concave part (62).

No. of Pages : 50 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055571 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLE-RIDE VEHICLE

(51) International classification	:B62K0011040000, B62D0025000000, B21D0053880000, B60N0002070000, B62J0015000000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan Japan
(31) Priority Document No	:2021-162133	(72)Name of Inventor :
(32) Priority Date	:30/09/2021	1)Hiroki MORI
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An object of the present invention is to provide a saddle-ride vehicle capable of improving appearance and waterproof property when vertical wall portions of a rear fender each have a gap with a seat rail or a sub-frame. A saddle-ride vehicle includes: left and right seat rails (35); left and right sub-frames (36); and a rear fender (27) assembled from a lower side. The rear fender (27) has a base portion (50) and left and right vertical wall portions (51). The base portion (50) forms a housing space (S0) for vehicle body components (60, 61, and 62). Separation distance (W13) of the left and right vertical wall portions (51) is smaller than separation distance (W12) of the left and right sub-frames (36). At upper parts of the left and right vertical wall portions (51) each are provided with an eaves portion (52) extending outward in a vehicle width direction to fill a gap between the vertical wall portion (51) and the frames (35 and 36). The eaves portions (52) overlap with the seat rails (35) in an up-down direction, and the eaves portions (52) each have a guide portion (54).

No. of Pages : 58 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055614 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : RUN FLAT DEVICE

(51) International classification	:B60C0017000000, B60C0017060000, B60C0017040000, B60C0015028000, H05K0001020000	(71) Name of Applicant : 1)HUTCHINSON Address of Applicant :2, Rue Balzac, 75008 PARIS, FRANCE. France
(31) Priority Document No	:2110328	(72) Name of Inventor :
(32) Priority Date	:30/09/2021	1)PAGES Marie
(33) Name of priority country	:France	2)JOSEPH Vincent
(86) International Application No	:NA	3)BRETON Etienne
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TITLE: RUN FLAT DEVICE 5 A run flat device (10) intended to be mounted in a tyre around a wheel rim of a vehicle, the device comprising at least one assembly (20, 20') of two half-shells (100, 200) assembled axially, each half-shell being made of a composite material based on fibres embedded in a thermoplastic or thermosetting resin, each half-shell comprising a radially internal periphery (102) a radially external periphery (104) and a lateral wall (106) 10 connecting the radially internal periphery to the radially external periphery (104) configured so as to form an internal recess (110) within the at least one assembly and each half-shell further comprising a plurality of circumferentially distributed anticompression ribs (108) extending, within the internal recess, radially from the radially external periphery towards the radially internal periphery.

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054400 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ARCHITECTURE FOR DIFFERENTIAL DRIVE AND SENSE FOR TOUCH SENSOR PANEL

(51) International classification	:G06F0003041000, G06F0003044000, G06F0003047000, H05K0001110000, H03K0017960000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,620	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)VAZE, Sagar R.
(33) Name of priority country	:U.S.A.	2)YOUSEFPOR, Marduke
(86) International Application No	:NA	3)NAYYAR, Amit
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ARCHITECTURE FOR DIFFERENTIAL DRIVE AND SENSE FOR TOUCH SENSOR PANEL Differential driving and/or differential sensing can reduce noise in the touch and/or display systems of a touch screen. In some examples, the touch sensor panel can include column and row electrodes routed vertically to a first edge of the touch sensor panel. In some examples, a touch sensor panel can be divided into banks. In some examples, the routing traces for rows can be implemented using four routing tracks per column for three banks. In some examples, the arrangement of routing traces within routing tracks can improve optical characteristics and/or reduce routing trace resistances and loading. In some examples, interconnections between routing traces and row electrodes can have a chevron pattern, an S-shape pattern, or a hybrid pattern. In some examples, differential sense routing can reduce cross-coupling within the touch sensor panel. In some examples, staggering differential drive signals can reduce parasitic signal loss.

No. of Pages : 227 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054401 A

(19) INDIA

(22) Date of filing of Application :22/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD AND SYSTEM FOR MEASURING AND TRACKING EAR CHARACTERISTICS

(51) International classification	:H04R0001100000, H04R0025000000, H04R0029000000, H04R0003040000, G08B0021180000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,353	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)KUSTER, Martin
(33) Name of priority country	:U.S.A.	2)SAUX, Tom-Davy W.
(86) International Application No	:NA	3)MURGAI, Prateek
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD AND SYSTEM FOR MEASURING AND TRACKING EAR CHARACTERISTICS A method performed by a headset that includes a speaker and an in-ear microphone, the method includes performing a calibration on the headset to obtain a baseline measurement; using, while the headset is being worn by a user, an audio signal to drive the speaker that is arranged to project sound into a canal of a user's ear; capturing as a microphone signal, from the in-ear microphone of the headset, sound from within the canal of the user's ear; determining a parameter associated with the user's ear based at least on the captured microphone signal and the baseline measurement; and transmitting a notification related to one or more characteristics of one or more hearing elements of the user's ear based on the parameter. To Be Published Figure 2

No. of Pages : 89 No. of Claims : 67

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054492 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : YAW BRAKING ASSEMBLY OF A WIND TURBINE

(51) International classification	:F03D0001060000, F03D0007020000, F03D0009250000, F03D0080700000, B60T0008175500	(71)Name of Applicant : 1)GENERAL ELECTRIC RENOVABLES ESPANA, S.L. Address of Applicant :Roc Boronat, 78, 08005 Barcelona, Spain Spain
(31) Priority Document No	:17/498,911	(72)Name of Inventor :
(32) Priority Date	:12/10/2021	1)Joseph Lawrence Chacon
(33) Name of priority country	:U.S.A.	2)Aaron P. Janicz
(86) International Application No	:NA	3)Philip James Verzella
Filing Date	:NA	4)Kasi Viswanadha Raju Gadiraju
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

YAW BRAKING ASSEMBLY OF A WIND TURBINE A braking assembly of a wind turbine includes a slewing ring bearing, at least one first drive mechanism having a first motor and a first drive pinion that rotationally engages the slewing ring bearing. The first motor is pre-tensioned in a first direction by a first amount of force. The braking assembly also includes at least one second drive mechanism having a second motor and a second drive pinion that rotationally engages the slewing ring bearing. The second motor is pre-tensioned in a second direction with a second amount of force. The first direction and the second direction are opposite of each other and the first amount of force are substantially equal to the second amount of force. Thus, the first and second amounts of force substantially cancel each other while also allowing dithering of at least one of the first and second motors, thereby preventing substantial rotational movement of the slewing ring bearing.

No. of Pages : 31 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054505 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE CONTROL SYSTEM

(51) International classification	:B61L0027000000, G05D0001000000, G06Q0010040000, G08G0001096800, B60W0010080000	(71)Name of Applicant : 1)TRANSPORTATION IP HOLDINGS, LLC Address of Applicant :901 Main Avenue Norwalk Connecticut U.S.A. 06851 U.S.A.
(31) Priority Document No	:17/513,103	(72)Name of Inventor : 1)Brian Scott Smith
(32) Priority Date	:28/10/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT VEHICLE CONTROL SYSTEM A control system (100) is provided that obtains a movement plan that includes schedules for movements of vehicle systems (102) traveling in a network (108) of routes (106). The movement plan may be generated by a network control system (100) located off-board the vehicle systems (102). The control system (100) may obtain pacing directives associated with different segment of the routes (106) that a first vehicle system (102) of the vehicle systems (102) is traveling or will travel on according to the movement plan. The pacing directives may dictate upper limits and/or lower limits on movement of the first vehicle system (102) in the different segments of the routes while the vehicle systems (102) are traveling according to the schedules of the movement plan. The control system (100) may control movement of the first vehicle system (102) to meet the schedules of the movement plan while the first vehicle system (102) moves according to the pacing directives in the corresponding different segments of the routes (106).

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057404 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLED VEHICLE

(51) International classification :B62K0011040000,
H01L0025065000,
B62K0025280000,
F16L0003100000,
F01N0013000000

(31) Priority Document No :2021-215085

(32) Priority Date :28/12/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Honda Motor Co., Ltd.

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan

(72)Name of Inventor :

1)SHIKANAI, Shimpei

2)AKIYAMA, Junpei

3)KAWAI, Kyohei

(57) Abstract :

To provide a saddled vehicle with excellent maintainability despite auxiliary lamps being mounted on a guard member. The saddled vehicle includes a front pipe (81) which has its middle portion held on a vehicle body frame (F) and has its both ends held on side pipes (82), and connection members (60, 160) connecting between the front pipe (81) and the side pipes (82). The connection members (60, 160) are each provided across the front pipe (81) and corresponding one of the side pipes (82) and include a front pipe-side fixing part (63, 163) and a side pipe-side fixing part (64, 164). An auxiliary lamp (27) is held via a lamp stay (70) which is held across the front pipe-side fixing part (63, 163) and the side pipe-side fixing part (64, 164).

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057405 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SADDLED VEHICLE

(51) International classification	:B62J0017020000, B62J0017040000, B62J0006020000, B62J0017000000, F02M0035100000	(71)Name of Applicant : 1)Honda Motor Co., Ltd. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan
(31) Priority Document No	:2021-215077	(72)Name of Inventor :
(32) Priority Date	:28/12/2021	1)SHIKANAI, Shimpei
(33) Name of priority country	:Japan	2)KUROSE, Yuichiro
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To provide a saddled vehicle having air guide members firmly yet readily mounted on its front cowl while keeping the mounting portion unobtrusive. A saddled vehicle (1) includes: a cowl (C) that covers a front part of the saddled vehicle (1); a windshield screen (7) disposed at an upper part of the cowl (C); and an air guide member (50) separately from the windshield screen (7) mounted on the cowl (C). The cowl (C) includes a front cowl (9) that covers an outer circumference of a headlamp (12) and a front lateral cowl (11) that covers an outer side in the vehicle width direction of the front cowl (9). The air guide member (50) includes a support part (52) held between front cowl (9) and the front lateral cowl (11). The front cowl (9) has an opening (9a). The support part (52) is inserted into the opening (9a) from the outer side in the vehicle width direction. The opening (9a) and the support part (52) are covered with the front lateral cowl (11).

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057419 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY PACK AND ASSEMBLY METHOD OF BATTERY PACK

(51) International classification	:H01M0050200000, H01M0010420000, H01M0050502000, H01M0010040000, B60L0050640000	(71)Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210946274.4	(72)Name of Inventor :
(32) Priority Date	:08/08/2022	1)GUAN, JUNSHAN
(33) Name of priority country	:China	2)GU, LIANGJIE
(86) International Application No	:NA	3)ZHAO, DONG
Filing Date	:NA	4)CAO, ZHIJUAN
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided are a battery pack and a method for assembling the battery pack. The battery pack includes a battery string and a busbar support (100). The battery string includes a plurality of batteries (200) arranged along a first direction (X). Surface of the battery (200) perpendicular to the first direction is provided with a pole assembly (210). The busbar support (100) is arranged on a surface of the battery (200) parallel to the first direction (X). The busbar support (100) includes a main body portion (110) and a protection portion (120). The main body portion (110) is configured for setting the busbar (300). The protection portion (120) is connected to one side of the main body portion (110). The protection portion (120) is located on one side of the pole assembly (210) facing away from the battery along the first direction (X). FIG. 1

No. of Pages : 51 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057457 A

(19) INDIA

(22) Date of filing of Application :07/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : FILTRATION ASSEMBLY

(51) International classification	:B01D0063080000, G01N0001400000, B01D0035300000, C10G0031090000, C12Q0001688600	(71)Name of Applicant : 1)PALL CORPORATION Address of Applicant :25 Harbor Park Drive, Port Washington, New York 11050, UNITED STATES OF AMERICA U.S.A.
(31) Priority Document No	:17/559,078	(72)Name of Inventor :
(32) Priority Date	:22/12/2021	1)ZARZYCKI, MAREK
(33) Name of priority country	:U.S.A.	2)POULIOT, KACEY W.
(86) International Application No	:NA	3)WAKELIN, JOSEPH D.
Filing Date	:NA	4)RECH, ARIANNA
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT FILTRATION ASSEMBLY A filtration system, a filtration assembly, and a method for using the filtration assembly to determine the presence or absence of microorganisms in a fluid filtered by the filtration assembly, are disclosed.

No. of Pages : 29 No. of Claims : 6

(54) Title of the invention : METHOD FOR ESTIMATING LOAD BY ENERGY METER INCLUDING LOAD ESTIMATION MODEL BASED ON NEURAL NETWORK AND ENERGY METER USING THE SAME

(51) International classification	:G06Q0050060000, B60C0023040000, G01D0004000000, G01R0035040000, G06N0003040000	(71)Name of Applicant : 1)STARKOFF CO.,LTD. Address of Applicant :1405 ho, 17, Ahasan-ro, Seongdong-gu, Seoul 04789, Republic of Korea Republic of Korea
(31) Priority Document No	:17/502,879	(72)Name of Inventor :
(32) Priority Date	:15/10/2021	1)AHN, Hyun Kwon
(33) Name of priority country	:U.S.A.	2)AHN, Tae Hyo
(86) International Application No	:NA	3)LEE, Dong Hoon
Filing Date	:NA	4)KIM, Hong Mo
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR ESTIMATING LOAD BY ENERGY METER INCLUDING LOAD ESTIMATION MODEL BASED ON NEURAL NETWORK AND ENERGY METER USING THE SAME A method for estimating load by energy meter including a load estimation model based on a neural network is provided. The method includes steps of: (a) the energy meter generating sampled supply electric power information by sampling information on electric power based on a predetermined sampling rate; (b) the energy meter instructing the load estimation model to output load information; and (c) the energy meter (i) transmitting the load information and information on an amount of the electric energy to a data management server and (ii) instructing the data management server to monitor the information on the amount of the electric energy, information on each sub-electric power for each of the loads, and information on each sub-amount of the electric energy for each of the loads.

No. of Pages : 53 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053470 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : WEARABLE ELECTRONIC DEVICE HAVING A DIGITAL CAMERA ASSEMBLY

(51) International classification :A44C0005000000,
A61B0005024000,
G06F0001160000,
A61B0005000000,
H04N0005232000

(31) Priority Document No :63/247,662

(32) Priority Date :23/09/2021

(33) Name of priority country :U.S.A.

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number:NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)APPLE INC.
Address of Applicant :One Apple Park Way Cupertino,
California 95014, United States of America U.S.A.

(72)Name of Inventor :
1)SPENCER, Maegan K.
2)BOOZER, Brad G.
3)WERNER, Christopher M.
4)DAIGLE, Joshua L.
5)STONE, Riley K.

(57) Abstract :

WEARABLE ELECTRONIC DEVICE HAVING A DIGITAL CAMERA ASSEMBLY A wearable electronic device may include a housing defining a band slot and a protrusion further defining a camera cavity. A digital camera assembly may be positioned in the camera cavity defined by the protrusion and/or housing. Walls of the protrusion may at least partially define the band slot and the protrusion may further at least partially extend over the band slot. The digital camera assembly may be used to capture light used to generate images and/or videos and may be communicatively coupled to a battery and other electronic components positioned within an internal cavity of the wearable electronic device. A band configured to couple with the band slot to secure the wearable electronic device around a body part of a user may be provided and may be removeable with respect to the band slot.

No. of Pages : 73 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053475 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ENCODING AND DECODING VIDEO CONTENT

(51) International classification	:H04N0019460000, H04N0019310000, H04N0021440000, H04N0019440000, H04N0021234000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014-2094, United States of America U.S.A.
(31) Priority Document No	:17/485,298	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)HU, Sudeng
(33) Name of priority country	:U.S.A.	2)BIDERMAN, David L.
(86) International Application No	:NA	3)GARRIDO, Christopher M.
Filing Date	:NA	4)WU, Hsi-Jung
(87) International Publication No	: NA	5)ZHOU, Xiaosong
(61) Patent of Addition to Application Number	:NA	6)ZHANG, Dazhong
Filing Date	:NA	7)QIU, Jinbo
(62) Divisional to Application Number	:NA	8)SANTHANAM, Karthick
Filing Date	:NA	9)YUAN, Hang
		10)HARE, Joshua L.
		11)VERGER, Luciano M.
		12)ROBERTSON, Kevin Arthur
		13)VEMURI, Sasanka

(57) Abstract :

ABSTRACT ENCODING AND DECODING VIDEO CONTENT In an example method, a system receives a plurality of frames of a video, and generates a data structure representing the video and representing a plurality of temporal layers. Generating the data structure includes: (i) determining a plurality of quality levels for presenting the video, where each of the quality levels corresponds to a different respective sampling period for sampling the frames of the video, (ii) assigning, based on the sampling periods, each of the frames to a respective one of the temporal layers of the data structure, and (iii) indicating, in the data structure, one or more relationships between (a) at least one the frames assigned to at least one of the temporal layers of the data structure, and (b) at least another one of the frames assigned to at least another one of the temporal layers of the data structure. Further, the system outputs the data structure.

No. of Pages : 59 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053480 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PORTABLE ELECTRONIC DEVICE HAVING INTEGRATED ANTENNA ELEMENTS

(51) International classification	:H01Q0001240000, H01Q0001270000, H04B0001382700, A61B0005000000, H05B0047105000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/247,674	(72) Name of Inventor :
(32) Priority Date	:23/09/2021	1)PARKER, Michael R.
(33) Name of priority country	:U.S.A.	2)COPELAND, Devon K.
(86) International Application No	:NA	3)FU, Jody C.
Filing Date	:NA	4)BUSHNELL, Tyler S. Atura
(87) International Publication No	: NA	5)CANALES, Trent
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PORTABLE ELECTRONIC DEVICE HAVING INTEGRATED ANTENNA ELEMENTS Housings for electronic devices are disclosed, as well as electronic devices including the housings. A wireless communication system of the electronic device may include an antenna element within a display assembly. The antenna element within the display assembly may be operatively coupled to a conductive upper portion of the housing. The housing may define a slot between the conductive upper portion and a conductive lower portion of the housing, and a dielectric material may be positioned within the slot.

No. of Pages : 110 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053485 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : FEEDBACK USING COVERAGE FOR OBJECT SCANNING

(51) International classification	:G06Q0030060000, G06K0009320000, G06T0015500000, H04W0048160000, B64C0039020000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/247,831	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)GERNOTH, Thorsten
(33) Name of priority country	:U.S.A.	2)LU, Cheng
(86) International Application No	:NA	3)TANG, Hao
Filing Date	:NA	4)JOHNSON, Michael P.
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

FEEDBACK USING COVERAGE FOR OBJECT SCANNING Various implementations disclosed herein provide feedback to a user during object scanning based on how well sensor data of the scanned object has been captured. During object scanning a user may move an electronic device with sensors (e.g., cameras, depth sensors, etc.) around an object to capture sensor data for use in generating a final 3D model of the object. Live feedback during the scanning process is enabled by assessing how well the captured sensor data represents different portions of the object. In some implementations, a 3D model is generated, updated, and assessed based on the sensor data live during the scanning process. This live 3D model may be coarser (i.e., having fewer details) than the final 3D model.

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055669 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELASTIC EMBOSSING LACQUER HAVING HIGH OPTICAL DISPERSION

(51) International classification	:H04B0010251300, C09K0019300000, C08F0008000000, H01S0005500000, C08G0018420000	(71)Name of Applicant : 1)Joanneum Research Forschungsgesellschaft mbH, Address of Applicant :Leonhardstraße 59, 8010 Graz, Austria. Austria
(31) Priority Document No	:21200658.9	(72)Name of Inventor : 1)Nees, Herrn Dieter
(32) Priority Date	:04/10/2021	2)Palfinger, Ursula
(33) Name of priority country	:EPO	3)Ruttloff, Stephan
(86) International Application No	:NA	4)Götz, Johannes
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An embossing lacquer containing radical polymerizable compounds (A) to (D) that have an overall aromatic content of at least 20 wt%: compound (A), which is a non-crosslinking compound and has an aromatic content of at least 40 wt%; compound (B), which is a crosslinking compound forming crosslinks via one or more aliphatic chain(s) each having a molecular weight of 200 to 2000 g/mol, wherein the content of the aliphatic chain(s) in compound (B) is at least 40 wt%; optionally compound (C), which is a crosslinking compound and has an aromatic content of at least 30 wt%; and optionally compound (D), which has a urethane group. A decorative article containing the cured embossing lacquer and a method of preparing the decorative article.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055676 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TOUCH DISPLAY DEVICE

(51) International classification	:G06F0003041000, G06F0003044000, G06F0003042000, G06F0003048800, G02F0001133300	(71)Name of Applicant : 1)LG DISPLAY CO., LTD Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0138212	(72)Name of Inventor :
(32) Priority Date	:18/10/2021	1)Gwon, Hyangmyoung
(33) Name of priority country	:Republic of Korea	2)Rhe, Ruda
(86) International Application No	:NA	3)Jung, JiHyun
Filing Date	:NA	4)Lee, DeukSu
(87) International Publication No	: NA	5)An, SuChang
(61) Patent of Addition to Application Number	:NA	6)Lee, JaeGyun
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TOUCH DISPLAY DEVICE A touch display device (100) is disclosed. By making at least one of a thickness or an angle of inclination of an insulating layer disposed on an area where a touch routing line (TL) is disposed on a non-active area (NA) of a display 5 panel (110) and an area that lacks the touch routing line (TL) to be different from each other, a short circuit between touch routing lines (TL) due to a defect in a process arranging the touch routing lines (TL) can be reduced. Reference Fig. 1

No. of Pages : 114 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055763 A

(19) INDIA

(22) Date of filing of Application :28/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : IMAGING LENS ASSEMBLY, IMAGING LENS ASSEMBLY MODULE, CAMERA MODULE AND ELECTRONIC DEVICE

(51) International classification	:G02B0013000000, H04N0005225000, G02B0007020000, G02B0007080000, G02F0001290000	(71) Name of Applicant : 1)LARGAN PRECISION CO., LTD. Address of Applicant :No.11, Jingke Rd., Nantun Dist., Taichung City 408, TAIWAN,
(31) Priority Document No	:110140160	(72) Name of Inventor :
(32) Priority Date	:28/10/2021	1)Ming-Shun CHANG
(33) Name of priority country /region	:Taiwan	2)Lin-An CHANG
(86) International Application No	:NA	3)Ming-Ta CHOU
Filing Date	:NA	4)Chun-Hua TSAI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

IMAGING LENS ASSEMBLY, IMAGING LENS ASSEMBLY MODULE, CAMERA MODULE AND ELECTRONIC DEVICE
An imaging lens assembly has an optical axis (X) and includes at least one lens element (120, 130, 140). The at least one lens element (120, 130, 140) includes an optical effective region (121, 131, 141) and a peripheral portion (122). The peripheral portion (122) includes an object-side surface (1221, 1321, 1421), an image-side surface (1222,1322,1422), a peripheral surface (1223, 1323, 1423), an annular marking structure (1224, 1324, 1424) and at least one arc portion (1225, 1226, 1325, 1326, 1425, 1426). The annular marking structure (1224, 1324, 1424) is disposed on one of the object-side surface (1221, 1321, 1421) and the image-side surface (1222,1322,1422). The arc portion (1225, 1226, 1325, 1326, 1425, 1426) is disposed on the other one of the object-side surface (1221, 1321, 1421) and the image-side surface (1222,1322,1422).

No. of Pages : 65 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055846 A

(19) INDIA

(22) Date of filing of Application :29/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ROAD CONSTRUCTION MACHINE WITH NEBULIZER

(51) International classification	:E02F0009200000, E02F0009220000, E01C0019480000, A61M0011060000, A61M0011000000	(71) Name of Applicant : 1)Joseph Vögele AG Address of Applicant :Joseph-Vögele-Straße 1, 67067 Ludwigshafen/Rhein, Germany Germany
(31) Priority Document No	:21200171.3	(72) Name of Inventor : 1)Bernhard Erdtmann
(32) Priority Date	:30/09/2021	
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Road Construction Machine with Nebulizer A road construction machine (1) in the form of a road finisher (2) or feeder vehicle (30) comprising an operator stand (9, 13) with a floor surface (12, 12') as a tread surface and a cooling system (K) for producing a mist from a cooling agent (16). The cooling system (K) comprises a tank (15) for receiving the cooling agent and a spray apparatus (18) for nebulizing the cooling agent into a mist. The cooling system (K) is configured to produce the mist in the area of the operator stand (9, 13); the spray apparatus (18) is arranged thereby at a height of at least 1.7 m above the tread surface (12, 12').

No. of Pages : 10 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055928 A

(19) INDIA

(22) Date of filing of Application :29/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TOUCH DRIVING CIRCUIT AND TOUCH DISPLAY DEVICE

(51) International classification	:G06F0003041000, G06F0003044000, G09G0003360000, G07F0017120000, G09F0009300000	(71)Name of Applicant : 1)LG DISPLAY CO., LTD Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0135229	(72)Name of Inventor :
(32) Priority Date	:12/10/2021	1)Kim, HyongHwan
(33) Name of priority country	:Republic of Korea	2)Chung, JinBong
(86) International Application No	:NA	3)Shin, Sunkyung
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TOUCH DRIVING CIRCUIT AND TOUCH DISPLAY DEVICE A touch driving circuit (150) and a touch display device (100) are disclosed. A group sensing control switch (GSW) connected between lines 5 connected to sensing units (SU) included in a touch driving circuit (150) is disposed, thereby providing a structure in which one sensing unit (SU) can drive a touch electrode (TE) driven by another sensing unit (SU). One sensing unit (SU) simultaneously drives two or more touch electrodes (TE) according to an operation state of a group sensing control switch (GSW) to perform touch sensing, 10 thereby providing a touch driving circuit (150) and a touch display device (100) capable of maintaining the resolution of touch sensing and improving touch sensitivity according to a driving environment.

No. of Pages : 63 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054506 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SENSOR SYSTEM FOR A VEHICLE

(51) International classification	:G05D0027020000, B60R0001000000, G01W0001000000, B60R0016023000, G01D0021020000	(71) Name of Applicant : 1)TRANSPORTATION IP HOLDINGS, LLC Address of Applicant :901 Main Avenue Norwalk Connecticut U.S.A. 06851 U.S.A.
(31) Priority Document No	:17/511,164	(72) Name of Inventor : 1)Harland Ashby
(32) Priority Date	:26/10/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SENSOR SYSTEM FOR A VEHICLE A sensor system for a vehicle includes first and second sensors (1110, 1210) onboard different vehicles. The sensors sense one or more environmental parameters. A controller (1120) receives a first signal output by the first sensor (1110) that indicates a value of the one or more environmental parameters sensed by the first sensor (1110). The controller (1120) may control operation of a power component (1130) of the first vehicle (1100) using the value of the one or more environmental parameters received from the first sensor (1110). The controller (1120) may detect undesirable operation of the first sensor (1110) and transition to receiving a second signal output by the second sensor (1210) that indicates the value of the one or more environmental parameters. The controller (1120) may control the operation of the power component (1130) of the first vehicle (1100) using the value of the one or more environmental parameters received from the second sensor (1210).

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054538 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LIQUID COOLED TEST SOCKET FOR TESTING SEMICONDUCTOR INTEGRATED CIRCUIT CHIPS

(51) International classification	:G01R0001040000, G01R0031280000, H05K0007100000, H01R0013193000, H01R0012710000	(71)Name of Applicant : 1)Smiths Interconnect Americas, Inc. Address of Applicant :5101 Richland Avenue, Kansas City, KS- 66106, United States of America U.S.A. 2)Antares Advanced Test Technologies (Suzhou) Limited
(31) Priority Document No	:202111137602.8	(72)Name of Inventor :
(32) Priority Date	:27/09/2021	1)ZHOU, Jiachun
(33) Name of priority country	:China	2)LIU, Dexian
(86) International Application No	:NA	3)NGUYEN, Quynh Ngoc
Filing Date	:NA	4)LIANG, Qihai
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT LIQUID COOLED TEST SOCKET FOR TESTING SEMICONDUCTOR INTEGRATED CIRCUIT CHIPS A test socket for an IC chip includes a retainer positioned adjacent a load board, the retainer defining a plurality of apertures corresponding to contact pads on the load board; a plurality of contacts disposed in the plurality of apertures, the plurality of contacts configured to electrically couple the IC chip to the contact pads; a housing defining a chamber in fluid communication with an inlet, a liquid outlet, and a vapor outlet. The housing includes a body structure defining a plurality of cavities corresponding to the plurality of apertures and configured to receive the plurality of contacts therein, and a guide structure configured to receive the IC chip and position the IC chip in the chamber when engaged with the plurality of contacts. The chamber receives a two phase fluid coolant via the inlet to at least partially submerges the plurality of contacts in the two phase fluid coolant.

No. of Pages : 42 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054542 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : STORAGE BOX SEAL STRUCTURE

(51) International classification	:B62K0019460000, F16J0015060000, A61M0005320000, A61M0005280000, A61L0002260000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan Japan
(31) Priority Document No	:2021-162265	(72)Name of Inventor :
(32) Priority Date	:30/09/2021	1)INOUE, Yoshihiro
(33) Name of priority country	:Japan	2)YAMADA, Tsuyoshi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

To improve sealability by positioning of a lid member. A storage box seal structure includes a recess (61), a seal member (63) provided in the recess (61), and a projection (65) that comes into contact with the seal member (63) for sealing, and has, at an opening, a centering structure (70) for guiding opening and closing of a lid member (40). The centering structure (70) includes a first rib (71) and a second rib (73) projecting from opposite edges of the recess (61), and a guide portion (75, 77) that guides at least one of the first rib (71) and the second rib (73) at opening and closing.

No. of Pages : 37 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054618 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADAPTIVE USER ENROLLMENT FOR ELECTRONIC DEVICES

(51) International classification	:H04W0072040000, G06F0021320000, G06F0013000000, G06F0003010000, A63F0013870000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,411	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)COHEN, David
(33) Name of priority country	:U.S.A.	2)BROGLE, Kyle C.
(86) International Application No	:NA	3)ROCKWELL, Michael J.
Filing Date	:NA	4)DESAI, Ranjit
(87) International Publication No	: NA	5)KERR, Joel N.
(61) Patent of Addition to Application Number	:NA	6)DEDONATO, Amy E.
Filing Date	:NA	7)LOBO FERREIRA DA SILVA, Joaquim Gonçalo
(62) Divisional to Application Number	:NA	8)CALDERONE, Tyler R.
Filing Date	:NA	9)PAPADOPOULOS, Charilaos

(57) Abstract :

ADAPTIVE USER ENROLLMENT FOR ELECTRONIC DEVICES Aspects of the subject technology provide electronic devices that operate, in part, based on enrolled user characteristics, and that can be operated by a guest user that has not been enrolled. For example, upon determining that a current user of an electronic device storing a first physical model of a primary user is a guest user different from the primary user, the electronic device may obtain initial physical characteristic data for the guest user and generate a guest physical model of the guest user based on the initial physical characteristic data. In one or more implementations, the electronic device may operate based on guest user inputs and the guest physical model of the guest user, while updating the guest physical model based on the guest user inputs.

No. of Pages : 56 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057865 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR THE DIAGNOSIS OF AN AIR SUPPLY CIRCUIT SUPPLYING AIR TO A BURNER OF AN EXHAUST GAS AFTER-TREATMENT SYSTEM FOR AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F01N0003200000, F01N0003025000, F02D0041220000, F01N0011000000, F01N0003035000	(71) Name of Applicant : 1)MARELLI EUROPE S.P.A. Address of Applicant :VIALE ALDO BORLETTI 61/63 20011 - CORBETTA (MI), ITALY Italy
(31) Priority Document No	:102021000027893	(72) Name of Inventor :
(32) Priority Date	:29/10/2021	1)Gaetano DI VIESTE
(33) Name of priority country	:Italy	2)Luigi DE LUCA
(86) International Application No	:NA	3)Fabio SENSI
Filing Date	:NA	4)Giovanni PRODI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR THE DIAGNOSIS OF AN AIR SUPPLY CIRCUIT SUPPLYING AIR TO A BURNER OF AN EXHAUST GAS AFTER-TREATMENT SYSTEM FOR AN EXHAUST SYSTEM OF AN INTERNAL COMBUSTION ENGINE
A method for the diagnosis of an air supply circuit (23) supplying air to a burner (21) of an exhaust gas after-treatment system (14) for an exhaust system (2) of an internal combustion engine (1), wherein the air supply circuit (23) is provided with a pumping device (24) housed along a first duct (25) adjusted by a shut-off valve (26). The method entails housing a first pressure sensor (33) along the first duct (25) interposed between the pumping device (24) and the burner (21); housing a second pressure sensor (34) along a second duct (35) out of the burner (21); acquiring the pressure signals (P33, P34) detected by said first and second pressure sensors (33, 34); and diagnosing faults and/or malfunctions (F) in the air supply circuit (23) depending on the pressure signals detected by said first and second pressure sensors (33, 34). Main figure: figure 2

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057890 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PLASTIC BARRIER LAMINATE WITH AN AT LEAST PARTIALLY CRYSTALLIZED LAYER AND WITH A PIGMENTED LAYER

(51) International classification	:B32B0027080000, H01L0021020000, B29L0031000000, B32B0027300000, B32B0007020000	(71)Name of Applicant : 1)Huhtamaki Flexible Packaging Germany GmbH & Co. KG Address of Applicant :Heinrich-Nicolaus-Straße 6 87671 Ronsberg, Germany Germany
(31) Priority Document No	:21 206 820.9	(72)Name of Inventor :
(32) Priority Date	:06/11/2021	1)SOUZA, Mayara
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract The present invention refers to a plastic barrier laminate (14) comprising at least one at least partially crystallized layer (26, 40) containing polyethylene and a nucleating agent, and at least one pigmented layer (30, 32, 34) containing polyethylene and a 5 portion of flake-shaped pigments, wherein the portion of pigments is in the range from 1.5 % by weight to 5.0 % by weight relative to the weight of the at least one pigmented layer (30, 32, 34).

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057900 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD OF MANAGING INFORMATION FOR THE SUPPLY CHAIN OF A PERISHABLE COMMODITY

(51) International classification	:G06Q0010080000, G06Q0010060000, G06Q0030020000, G06Q0050180000, H02G0011000000	(71) Name of Applicant : 1)Frederick Wu Address of Applicant :6140 STONERIDGE MALL ROAD, STE. 180 PLEASANTON CA UNITED STATES OF AMERICA 94588 U.S.A.
(31) Priority Document No	:21205471.2	(72) Name of Inventor :
(32) Priority Date	:29/10/2021	1)Frederick Wu
(33) Name of priority country	:EUROPEAN UNION	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A method of managing information concerning the supply chain of a perishable commodity utilizing a data repository capturing multiple data sources. The method further includes 5 the collating of the data into a chain of custody information representation for use by data contributors. -

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057901 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SCOOTER TYPE VEHICLE

(51) International classification	:F01N0013000000, B60K0001040000, F01N0001080000, F01N0013080000, B01D0053940000	(71)Name of Applicant : 1)YAMAHA HATSUDOKI KABUSHIKI KAISHA Address of Applicant :2500, Shingai, Iwata-shi, Shizuoka 4388501 Japan
(31) Priority Document No	:JP2021-174628	(72)Name of Inventor :
(32) Priority Date	:26/10/2021	1)Yoshihide TAKANO
(33) Name of priority country	:Japan	2)Mitsuharu SOUMA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SCOOTER TYPE VEHICLE A scooter type vehicle (1) includes a handlebar (3), a seat (6), an engine (12), an exhaust pipe (21), a muffler (23), and a rear wheel (15). The muffler (23) includes a first unit (31), a connecting portion (41), and a second unit (51). The first unit (31) includes a first pipe (33), a first catalyst (35), a second pipe (37), and a first lid member (39). The first catalyst (35) is arranged inside of the first pipe (33). The second pipe (37) is located outward of the first pipe (33). A gap (G) is formed outward of the first pipe (33) and inward of the second pipe (37). The second pipe (37) extends to a position more rearward than the first pipe (33). The first lid member (39) is attached to a rear end (37b) of the second pipe (37) and closes the rear end (37b) of the second pipe (37). The first lid member (39) introduces exhaust gases, exhausted from the first pipe (33), into the gap (G). The connecting portion (41) is connected to an outer circumferential face (37c) of the second pipe (37) and is in communication with the gap (G). FIG. 1.

No. of Pages : 57 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057953 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTEGRATED MULTIPART HOUSING FOR AN ELECTRONIC DEVICE

(51) International classification	:G06F0001160000, H04M0001020000, G02F0001133300, A61B0005000000, A61B0005282000	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:17/502,721	(72)Name of Inventor :
(32) Priority Date	:15/10/2021	1)DHILLON, Jagbir S.
(33) Name of priority country	:U.S.A.	2)PREST, Christopher D.
(86) International Application No	:NA	3)BUSHNELL, Tyler S. Atura
Filing Date	:NA	4)COUNTS, William A.
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

INTEGRATED MULTIPART HOUSING FOR AN ELECTRONIC DEVICE Embodiments are directed to a portable wearable device having a housing that includes a shell formed from a sheet metal material and defining an outer surface of the portable wearable device and a frame formed from a polymer material molded to an inner surface of the shell. The housing also includes a cover glass coupled to a ledge of the frame, where the frame and the cover glass define at least a portion of a sealed cavity. The portable wearable device may include a display assembly coupled to an inner surface of the cover glass such that the display assembly is positioned within the sealed cavity.

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053492 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR CONTROLLING A HYDROGEN-INTERNAL COMBUSTION ENGINE

(51) International classification	:F02D0041140000, F02D0013020000, G06F0011160000, F02D0035020000, F02D0041240000	(71) Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:102021210398.7	(72) Name of Inventor :
(32) Priority Date	:20/09/2021	1)MARTIN, Lionel
(33) Name of priority country	:Germany	2)GAUTHIER, Yvan
(86) International Application No	:NA	3)ZELLER, Johannes
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR CONTROLLING A HYDROGEN-INTERNAL COMBUSTION ENGINE The method for controlling a hydrogen-internal combustion engine (10), wherein a stationary, lean lambda target value (target, stat) is changed to a dynamic, higher lambda target value (target, dyn) when a transient operating state for the hydrogen-internal combustion engine (10) is detected, wherein the target lambda value (target) is carried out continuously/abruptly up to a maximum of a pre-definable threshold (S1), wherein the threshold (S1) is characterized in such a way that a pre-ignition of the air-hydrogen-mixture or a knocking behavior of the combustion is avoided.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053532 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE SYSTEM AND METHOD FOR CARGO TRANSLOADING

(51) International classification	:B65D0090000000, A61F0013560000, B65D0088120000, B60P0001640000, A63H0018020000	(71)Name of Applicant : 1)TRANSPORTATION IP HOLDINGS, LLC Address of Applicant :901 Main Avenue Norwalk Connecticut U.S.A. 06851 U.S.A.
(31) Priority Document No	:17/450,139	(72)Name of Inventor :
(32) Priority Date	:06/10/2021	1)Anthony D. Paul
(33) Name of priority country	:U.S.A.	2)Nathan Thomas North
(86) International Application No	:NA	3)Milan Karunaratne
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT VEHICLE SYSTEM AND METHOD FOR CARGO TRANSLOADING A vehicle according to a vehicle system and method includes a chassis, a coupler, and a platform on the chassis. The coupler is mounted to the chassis at a first end of the chassis and is configured to releasably connect the vehicle to a second vehicle. The platform is for supporting a cargo container and includes a base portion and a bridge member. The bridge member is located at an end of the platform and is extendable relative to the base portion from a retracted position to an extended position to lengthen the platform. The bridge member in the extended position projects beyond the first end of the chassis, above the coupler, towards the second vehicle for establishing a bridge to transload the cargo container from the platform to the second vehicle.

No. of Pages : 49 No. of Claims : 20

(54) Title of the invention : VARIABLE COMPRESSION-RATIO DEVICE

(51) International classification :F02B0075040000,
F16H0057020000,
F02D0015020000,
F02B0075320000,
F01M0001060000

(31) Priority Document No :2021-161719

(32) Priority Date :30/09/2021

(33) Name of priority country :Japan

(86) International Application No :NA

Filing Date :NA

(87) International Publication No :NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :
1)HONDA MOTOR CO., LTD.
Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan

(72)Name of Inventor :
1)Masaki CHO
2)Masafumi TAKI
3)Noriaki OKANO
4)Kengo TOMIZAWA

(57) Abstract :

BACKGROUND OF THE INVENTION Field of the Invention [0001] The present

invention relates to variable compression-ratio devices. Description of the Related Art [0002] There has been known a crankshaft support structure of an internal combustion engine including an oil channel for supplying lubricating oil to a crankshaft bearing portion or the like (for example, Japanese Patent Laid-Open No. 2012-26934). There has also been disclosed a configuration of a multi-link variable-compression-ratio engine in which outflow of lubricating oil into the combustion chamber can be prevented, and oil deterioration due to blowby gas containing unburned fuel can be reduced (for example, Japanese Patent Laid-Open No. 2009-503971). Meanwhile, there has been known a variable compression-ratio device in which an eccentric cam is provided between the crank pin of the crankshaft and the large end of the connecting rod, and a motor rotates the eccentric cam to change the distance between the center axis of the large end and the axis of the crankshaft. [0004] Unfortunately, the above structure does not take supplying oil to the variable compression-ratio device into account. The present invention provides a variable compression-ratio device including a gear shaft disposed inside a crankshaft of an internal combustion engine coaxially with the crankshaft and configured to be rotationally driven by a power source, an input gear connected to the gear shaft, an intermediate gear supported by a crank web of the crankshaft and engaged with the input gear, an eccentric cam disposed between a crank pin of the crankshaft and a large end of a connecting rod and engaged with the intermediate gear, and a first oil channel configured to supply lubricating oil to the input gear. [0006] Since the crankshaft is provided with a first oil channel for supplying lubricating oil to the input gear, it is possible to supply oil to an input gear of the variable compression-ratio device. BRIEF DESCRIPTION OF THE DRAWINGS [0007] FIG. 1 is a diagram illustrating the internal structure of a variable compression-ratio device of the present invention. FIG. 2 is a diagram illustrating a crank pin, an eccentric cam, and their peripheral configurations, and FIG. 3 is an enlarged view of an input gear and its vicinities of the variable compression-ratio device. DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT [0008] Hereinafter, an embodiment of the present invention will be described with reference to the drawings. Note that in the following description, mentioning of directions such as front-rear, right-left, and upper-lower means the same directions as the ones with respect to the vehicle body unless otherwise specified. In each drawing, the symbol FR indicates the front side of the vehicle body, the symbol UP indicates the upper side of the vehicle body, and the symbol LH indicates the left side of the vehicle body. [0009] FIG. 1 is a diagram illustrating the internal structure of a power unit 10 including a variable compression-ratio device 10a of the present embodiment. This power unit 10 is configured to be mounted on a motorcycle and includes an engine 11 which is an internal combustion engine. The application of this power unit is not limited to motorcycles but may be mounted on various types of saddle-ride vehicle including three-wheeled and four-wheeled ones. [0010] The engine 11 includes a crank case 15 that supports a crankshaft 12 via a plurality of bearings 13 and 14 so that the crankshaft 12 is rotatable and a cylinder portion 20 that houses a not-illustrated piston connected to the crankshaft 12 via a crank web 16, a crank pin 17, and a connecting rod 18 in this order such that the piston is slidable. [0011] The crankshaft 12 supports a primary gear 21 engaged with a not-illustrated driven gear. Between this primary gear 21 and the bearing 13 that supports the crankshaft 12 is a primary gear collar 60 for positioning the primary gear 21. FIG. 1 illustrates a horizontal engine 11 in which the cylinder portion 20 protrudes forward horizontally from the crank case 15. In FIG. 1, the symbol C1 indicates the axis of the crankshaft 12 supported by the crank case 15. The symbol C2 indicates the axis of the crank pin 17. The axis C1 of the crankshaft 12 and the axis C2 of the crank pin 17 are parallel. [0012] The variable compression-ratio device 10a includes an eccentric cam 31 between the outer periphery of the crank pin 17 of the crankshaft 12 and the inner periphery of the large end 18a of the connecting rod 18. The variable compression-ratio device 10a also includes a motor 32 that serves as the power source of the eccentric cam 31 and a power transmission mechanism 33 that transmits the power of the motor 32 to the eccentric cam 31. The power transmission mechanism 33 includes a gear shaft 52 coaxially disposed inside the crankshaft 12 of the internal combustion engine 11, an input gear 51 connected to an end portion of the gear shaft 52, an intermediate gear 50 supported by the crank web 16 of the crankshaft 12 and engaged with the input gear 51, and the aforementioned eccentric cam 31 engaged with the intermediate gear 50. [0013] The gear shaft 52 is disposed inside the crankshaft 12 coaxially with the crankshaft 12 and rotatably supported via a pair of bearings 56 and 57. This gear shaft 52 passes through a cover 58 located on the right side of the crankshaft 12 and extends to a position near the motor 32. Inside the cover 58 is provided an oil (indicated by the symbol I in FIG. 1) from a not-illustrated oil pump provided in the power unit 10, and this oil lubricates each of the bearings 56 and 57. [0014] A driving-side gear portion 53 has a warm gear 53a connected to the proximal end of the gear shaft 52 with a key, and this warm gear 53a reduces the rotation speed of a warm wheel attached to the motor 32 and transmits the rotation to the gear shaft 52. Note that the configuration of the driving-side gear portion 53 is not limited to the one using the warm gear 53a, but a known speed reducing mechanism can be adopted as appropriate. Although this example is based on a case in which the power source is the motor 32, the power source does not necessarily have to be the motor 32. [0015] The rotation angle of the motor 32 is controlled by a control unit 41 mounted on the motorcycle. This control unit 41 controls the rotation position of a part of the power transmission mechanism 33 (the rotation position of the gear shaft 52 in this configuration) via a potentiometer 42, and based on the obtained rotation position, this control unit 41 controls the rotation of the motor 32 such that it is at the target position. The control unit 41 is, for example, an electronic control unit (ECU) provided on the motorcycle. [0016] Next, the eccentric cam 31, the power transmission mechanism 33, and their peripheral configurations will be described. FIG. 2 is a cross-sectional view taken along line II-II in FIG. 1, illustrating the crank pin 17, the eccentric cam 31, and their peripheral configurations. As illustrated in FIG. 2, the thickness *t* of the eccentric cam 31 gradually changes in the circumferential direction. When the motor 32 is driven, the power is transmitted to the eccentric cam 31 via the power transmission mechanism 33, the eccentric cam 31 rotates in the circumferential direction. [0017] At the reference position, the position of the center axis C0 of the large end 18a of the connecting rod 18 is in agreement with the position of the axis C2 of the crank pin 17. When the eccentric cam 31 rotates, the thickness *t* of the eccentric cam 31 changes in the circumferential direction, and the position of the center axis C0 of the large end 18a of the connecting rod 18 is displaced from the axis C2 of the crank pin 17 to the position of the eccentric axis C3, which is shifted from the axis C2. This displacement changes the distance between the center axis C0 of the large end 18a and the axis C1 of the crankshaft 12, and this changes the stroke of the piston, changing the compression ratio. [0018] The outer periphery of the eccentric cam 31 has a gear portion 31a, as illustrated in FIG. 1. The gear portion 31a of the eccentric cam 31 engages with a large diameter gear 50a of the intermediate gear 50, and a small diameter gear 50b of the intermediate gear 50 engages with the input gear 51 of the gear shaft 52. The intermediate gear 50 is a double gear including the large diameter gear 50a and the small diameter gear 50b. [0019] As illustrated in FIG. 2, at least a part (a lower half) of the intermediate gear 50 is covered with a cover member 62. The cover member 62 is fastened to the crank web 16 by fasteners 54 such that the intermediate gear 50 is sandwiched between the cover member 62 and the crank web 16. The fasteners 54 function as coming-off prevention parts that prevent the intermediate gear 50 from coming off. [0020] The peripheral edge portion 62a of the cover member 62 including the lower portion is closely joined to the crank web 16 and sealed with a gasket or a filler. The space between the crank web 16 and the cover member 62 serves as an oil sump 63 of lubricating oil. The lubricating oil gathered near the intermediate gear 50 by the oil sump 63 improves the initial lubrication property of the variable compression-ratio device at the time when the internal combustion engine 11 restarts. [0021] Next, the supply route of the lubricating oil for the variable compression-ratio device 10a will be described. As illustrated in FIG. 3, the gear shaft 52 is disposed in a through hole 71 of the crankshaft 12. Between the inner periphery of the through hole 71 of the crankshaft 12 and the outer periphery of the gear shaft 52 is formed an annular third oil channel 73. The third oil channel 73 is provided with oil (indicated by the symbol J in FIG. 1) from a not-illustrated oil pump disposed in the power unit 10. [0022] The third oil channel 73 communicates with a fourth oil channel 74 and fifth oil channel 75 in the form of small holes, formed in the crankshaft 12. The fourth oil channel 74 and the fifth oil channel 75 communicate with an annular sixth oil channel 76. The annular sixth oil channel 76 is formed between the primary gear collar 60 for positioning the primary gear 21 and the outer periphery of the crankshaft 12. Since the sixth oil channel 76 is provided inside the primary gear collar 60, the number of parts forming the oil channel can be reduced, providing effects of improving manufacturing efficiency. [0023] The sixth oil channel 76 communicates with a first oil guide channel 65 formed in the crankshaft 12 illustrated at a lower portion of FIG. 3 and communicates with a second oil guide channel 67 also formed in the crankshaft 12, illustrated at an upper portion in FIG. 3. [0024] The first oil guide channel 65 extends being inclined toward the axis C1 of the crankshaft 12 and along the crankshaft 12. At the end portion on the input gear 51 side of the first oil guide channel 65 is provided an orifice 64. The orifice 64 is provided in the crank web 16. The orifice 64 has an opening at a position facing the tooth surface of the input gear 51. It is desirable that the diameter of the orifice 64 be smaller than or equal to 1 mm. [0025] Lubricating oil provided in the first oil guide channel 65 is provided onto the tooth surface of the input gear 51 of the variable compression-ratio device 10a through the orifice 64. Since lubricating oil is provided through the orifice 64, the amount of lubricating oil is adjusted, and the oil supply can be reliable. In addition, since the first oil guide channel 65 is inclined toward the axis C1 of the crankshaft 12, foreign objects contained in lubricating oil tend to stick to the inner peripheral surface of the first oil guide channel 65 by centrifugal force, and thus it is possible to keep the cleanliness of lubricating oil provided to the variable compression-ratio device 10a. [0026] A first oil channel 5 is provided at a peripheral portion of the crank web 16 and includes the annular third oil channel 73, the fourth oil channel 74 in the form of a small hole, the annular sixth oil channel 76, the first oil guide channel 65, and the orifice 64. Since the above oil channels 74, 65, and 64 are formed by making holes in the crankshaft 12 or the crank web 16, and the sixth oil channel 76 is formed inside the primary gear collar 60, the first oil channel 5 has a simple, compact structure. [0027] The second oil guide channel 67 extends being inclined toward the axis C1 of the crankshaft 12 and along the crankshaft 12. The second oil guide channel 67 bends in the middle and communicates with a seventh oil channel 77 formed in the crank pin 17 and an eighth oil channel 78 orthogonal to the seventh oil channel 77. The lubricating oil supplied in the eighth oil channel 78 is supplied to the inner peripheral surface of the large end 18a of the connecting rod 18 through a hole 78a. The second oil guide channel 67 is inclined toward the axis C1 of the crankshaft. Hence, foreign objects contained in lubricating oil tend to stick to the inner peripheral surface of the second oil guide channel 67 by centrifugal force. Thus, it is possible to keep the cleanliness of the lubricating oil supplied to the crank pin 17. [0028] A second oil channel 6 includes the annular third oil channel 73 provided at a peripheral portion of the crank web 16, the fifth oil channel 75 in the form of a small hole, the annular sixth oil channel 76, the second oil guide channel 67, the seventh oil channel 77, and the eighth oil channel 78. Since the above oil channels 75, 67, 77, and 78 are formed by making holes in the crankshaft 12 or the crank web 16, and the sixth oil channel 76 is formed inside the primary gear collar 60, the second oil channel 6 has a simple, compact structure. [0029] (Configuration 1) The above embodiment supports the following configurations. [0030] (Configuration 1) A variable compression-ratio device including a gear shaft disposed inside a crankshaft of an internal combustion engine coaxially with the crankshaft and configured to be rotationally driven by a power source, an input gear connected to the gear shaft, an intermediate gear supported by a crank web of the crankshaft and engaged with the input gear, an eccentric cam disposed between a crank pin of the crankshaft and a large end of a connecting rod and engaged with the intermediate gear, and a first oil channel provided in the crankshaft and configured to supply lubricating oil to the input gear. This configuration makes it possible to reliably supply oil to the input gear. In addition, it is possible to supply lubricating oil also to the intermediate gear by utilizing centrifugal force. In other words, it is possible to provide effects of efficiently lubricating each part of the eccentric cam driving mechanism. [0031] (Configuration 2) The variable compression-ratio device according to Configuration 1, in which the first oil channel is provided at a peripheral portion of the crank web. This configuration makes it possible to form the first oil channel with a compact structure. [0032] (Configuration 3) The variable compression-ratio device according to Configuration 1 or 2, in which the crankshaft is provided with a primary gear collar to position a primary gear, and at least part of the first oil channel is provided inside the primary gear collar. This configuration provides effects of reducing the part count and improving the manufacturing efficiency. [0033] (Configuration 4) The variable compression-ratio device according to any one of Configurations 1 to 3, in which an orifice is provided at an end portion on the input gear side of the first oil channel. This configuration makes it easy to adjust the amount of lubricating oil and provides effects of reliably supplying oil to the variable compression-ratio device. [0034] (Configuration 5) The variable compression-ratio device according to any one of Configurations 1 to 4, in which the first oil channel includes a first oil guide channel inclined relative to the axis of the crankshaft. This configuration makes it likely that foreign objects contained in the lubricating oil stick to outer peripheral portions by centrifugal force. This provides effects of making it likely that the lubricating oil led to the variable compression-ratio device is kept clean. [0035] (Configuration 6) The variable compression-ratio device according to any one of Configurations 1 to 5, further including a second oil channel to supply lubricating oil to the crank pin, in which the second oil channel includes a second oil guide channel inclined relative to the axis of the crankshaft. This configuration makes it likely that foreign objects contained in the lubricating oil stick to outer peripheral portions by centrifugal force. This provides effects of making it likely that the lubricating oil led to the crank pin is kept clean. [0036] (Configuration 7) The variable compression-ratio device according to any one of Configurations 1 to 6, further including a cover member that covers at least part of the intermediate gear from outside and allows an oil sump to be formed inside the cover member. Since with this configuration, lubricating oil is gathered near the intermediate gear when the internal combustion engine restarts, the initial lubrication property of the variable compression-ratio device is improved. [0037] Note that the above embodiment is for describing an aspect to which the present invention is applied, and thus, the present invention is not limited to the above embodiment. REFERENCE SIGNS LIST [0038] 3 eccentric cam driving mechanism 5 first oil channel 7 second oil channel 10 power unit 10a variable compression-ratio device 11 engine (internal combustion engine) 16 crank web 17 crank pin 18 connecting rod 21 primary gear 31 eccentric cam 50 intermediate gear 51 input gear 52 gear shaft 60 primary gear collar 62 cover member 64 orifice 65 first oil guide channel 67 second oil guide channel C1 axis of crankshaft

No. of Pages : 25 No. of Claims : 7

(54) Title of the invention : BATTERY

(51) International classification :H01M0002120000,
H01M0002100000,
H01M0002020000,
B60K0015030000,
H01F0027400000

(31) Priority Document No :202210699632.6

(32) Priority Date :20/06/2022

(33) Name of priority country :China

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)CALB CO., LTD.
 Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China

(72)**Name of Inventor :**
1)XU, JIULING
2)ZHANG, YONGJIE
3)ZHANG, LULU

(57) Abstract :

A battery includes an explosion-proof valve (10) and a battery casing (20). The explosion-proof valve (10) is arranged in the battery casing (20). The explosion-proof valve (10) is arranged on a first surface (21) of the battery casing (20), and includes a fragile portion. The fragile portion protrudes toward a middle region of the first surface (21), and includes a first end point (113) and a second end point (123). An area jointly enclosed by a connection line between the first end point (113) and the second end point (123) and the fragile portion between the first end point (113) and the second end point (123) is a. A minimum distance between the first end point (113) and a circumferential edge of the first surface (21) is b. A minimum distance between the second end point (123) and the circumferential edge of the first surface (21) is c.

No. of Pages : 29 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053557 A

(19) INDIA

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(43) Publication Date : 16/02/2024

(54) Title of the invention : PRE-PURIFICATION ARRANGEMENT FOR AIR SEPARATION AND METHOD OF HYBRID AIR PURIFICATION

(51) International classification	:F25J0003040000, B60W0010080000, B60W0010060000, G08G0005040000, B03C0003090000	(71)Name of Applicant : 1)AIR PRODUCTS AND CHEMICALS, INC. Address of Applicant :1940 AIR PRODUCTS BOULEVARD, ALLENTOWN, PA 18106-5500, USA U.S.A.
(31) Priority Document No	:17/482,826	(72)Name of Inventor :
(32) Priority Date	:23/09/2021	1)Gowri Krishnamurthy
(33) Name of priority country	:U.S.A.	2)Dingjun Wu
(86) International Application No	:NA	3)Nasim Ul Hassan Malik
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PRE-PURIFICATION ARRANGEMENT FOR AIR SEPARATION AND METHOD OF HYBRID AIR PURIFICATION A method and apparatus for purifying air via a pre-purification unit (PPU) of an air separation unit (ASU) system can include passing air through a first adsorber of the PPU to purify the air for operation of the ASU system while it is at or below a first pre-selected operational capacity. In response to the operational capacity of the ASU system needing to be increased to a level above the first pre-selected operational capacity threshold, a second adsorber can be brought on-line in parallel with the first adsorber or in series with the first adsorber to provide improved purification capacity to account for the increased demand for purification capacity resulting from the increased operational capacity of the ASU system. This second adsorber can be different from the first adsorber (e.g. different in size, adsorption capacity for impurities within air, and/or configuration, etc.).

No. of Pages : 57 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214055931 A

(19) INDIA

(22) Date of filing of Application :29/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DISPLAY PANEL AND DISPLAY APPARATUS COMPRISING THE SAME

(51) International classification	:G02F0001133500, H01L0027320000, H01L0027120000, A63B0023120000, G09F0009300000	(71)Name of Applicant : 1)LG DISPLAY CO., LTD Address of Applicant :128 Yeoui-daero, Yeongdeungpo-gu, Seoul 07336, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0130414	(72)Name of Inventor :
(32) Priority Date	:30/09/2021	1)Jin, Jungdoo
(33) Name of priority country	:Republic of Korea	2)Yu, Seonha
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DISPLAY PANEL AND DISPLAY APPARATUS COMPRISING THE SAME A display panel may include a first area (GA) in which a plurality of pixels are disposed, and a second area (SA) having at least two pixel groups (PG). Each of 5 the at least two pixel groups (PG) may include at least one pixel (PIX1 and PIX2, 617 and 619), a light transmittance portion (AG, 610) disposed between the at least two pixel groups (PG) to transmit light, and a hole (410, 520) formed to correspond to a boundary of the light transmittance portion (AG, 610). A cathode (CAT, 515, 615, 715, 815, 905) related to the at least one pixel (PIX1 and PIX2, 617 and 619) may be 10 disposed in at least a part of the hole (410, 520).

No. of Pages : 47 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056653 A

(19) INDIA

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ADDITIVELY MANUFACTURED STRUCTURE WITH REINFORCED ACCESS OPENING

(51) International classification	:B33Y0010000000, B22F0010200000, B33Y0080000000, B33Y0030000000, B22F0010000000	(71) Name of Applicant : 1)GENERAL ELECTRIC COMPANY Address of Applicant :1 River Road, Schenectady, New York 12345 USA U.S.A.
(31) Priority Document No	:17/515,608	(72) Name of Inventor :
(32) Priority Date	:01/11/2021	1)Xiaopeng Li
(33) Name of priority country	:U.S.A.	2)Biao Fang
(86) International Application No	:NA	3)Pascal Meyer
Filing Date	:NA	4)Christopher James Kenny
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A method and system of additively-manufacturing a structure having a reinforced access opening includes printing, via an additive printing device having at least one printer head, a portion of the structure adjacent to a support surface. The portion of the structure is printed of a cementitious material, and the printed portion of the structure defines an access opening for the structure. Moreover, the method includes providing a void of the cementitious material at a top boundary of the access opening, placing one or more reinforcement members in the void such that the one or more reinforcement members extend across the void, and continuing to print the printed portion of the structure around the void to build up the structure. Thus, the method also includes backfilling the void with a backfill material to incorporate the one or more reinforcement members within the void into the printed portion of the structure.

No. of Pages : 55 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214056742 A

(19) INDIA

(22) Date of filing of Application :03/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE SIDE STRUCTURE

(51) International classification :B62D0025020000,
B62D0025040000,
F01D0009040000,
B60R0021232000,
H01J0037280000
(31) Priority Document No :2021-202672
(32) Priority Date :14/12/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)SUZUKI MOTOR CORPORATION
Address of Applicant :300 Takatsuka-cho, Minami-ku,
Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(72)Name of Inventor :
1)MOCHIZUKI, Shinei

(57) Abstract :

Abstract VEHICLE SIDE STRUCTURE [Problem to be Solved] To improve torsional rigidity of a vehicle body without increasing the number of components and enable left-right bending deformation of a roof panel to be curbed. 5 [Solution] An upper portion of a roof side rail 30 in a vehicle side structure is provided with a first joining portion P1 that is joined to a part at which an upper portion of a side body outer panel 15 and an outer portion of a roof panel 1 in a vehicle width direction are joined to each other, and a lower portion of the roof side rail 30 is provided with a second joining portion P2 that is joined to a part at which an outer portion of a center roof member 10 and an 10 intermediate portion of the center inner pillar panel 27 are joined to each other. The center roof member 10 is curbed on the lower side from the intermediate portion toward the outer side in the vehicle width direction in a view in the front-back direction, and the first joining portion P1 and the center roof member 10 are disposed at an interval S from each other in the up-down direction.

No. of Pages : 34 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214059995 A

(19) INDIA

(22) Date of filing of Application :20/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ENHANCED CHANNEL CONFIGURATION FOR HEAT EXCHANGER TO COOL POWER ELECTRONICS

(51) International classification :A61B0018000000,
A61B0005000000,
A61B0005010000,
F25B0041200000,
F02C0001040000

(31) Priority Document No :63/272,298
(32) Priority Date :27/10/2021
(33) Name of priority country :U.S.A.
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number:NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)CARRIER CORPORATION
Address of Applicant :13995 Pasteur Blvd., Palm Beach
Gardens, Florida 33418, United States of America U.S.A.

(72)Name of Inventor :
1)MOHANTA, Lokanath
2)JOARDAR, Arindom
3)PRASAD, Srikanth Honavara
4)AGIRMAN, Ismail
5)BORISOV, Konstantin

(57) Abstract :

ABSTRACT ENHANCED CHANNEL CONFIGURATION FOR HEAT EXCHANGER TO COOL POWER ELECTRONICS A power electronics assembly includes one or more power electronics devices, 5 and a heat exchanger to which the one or more power electronics devices are mounted. The heat exchanger includes an inlet manifold and an outlet manifold, and one or more fluid pathways extending connecting the inlet manifold and the outlet manifold, the heat exchanger configured to transfer thermal energy from the one or more power electronics devices into a flow of fluid passing through the one or more 10 fluid pathways. Thee one or more fluid pathways include one or more internal enhancements and channel configurations to enhance thermal energy transfer by promoting boiling of the flow of fluid and to reduce the pressure drop in the pathways under a two-phase flow condition. The flow of fluid is a flow of liquid refrigerant diverted from a condenser of a heating, ventilation, and air conditioning (HVAC) 15 system.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060014 A

(19) INDIA

(22) Date of filing of Application :20/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRIC COMPONENT ARRANGEMENT STRUCTURE

(51) International classification	:H01L0027320000, B60R0021213000, H04M0001020000, E02F0003320000, B60R0021060000	(71)Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan
(31) Priority Document No	:2021-174057	(72)Name of Inventor :
(32) Priority Date	:25/10/2021	1)NAKAMURA, Satoshi
(33) Name of priority country	:Japan	2)SATO, Kazunari
(86) International Application No	:NA	3)NISHI, Atsushi
Filing Date	:NA	4)NAGAHAMA, Satomi
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ELECTRIC COMPONENT ARRANGEMENT STRUCTURE An electric component arrangement structure mounted on a vehicle includes a fuse insertion portion into which a first fuse is inserted, and a fuse holding portion that holds a second fuse that is a spare fuse for the first fuse. The fuse holding portion holds the second fuse in a posture in which the second fuse looks longer than the first fuse when the first fuse inserted into the fuse insertion portion and the second fuse held by the fuse holding portion are viewed in an insertion direction of the first fuse into the fuse insertion portion.

No. of Pages : 36 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060089 A

(19) INDIA

(22) Date of filing of Application :20/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ENGINE COOLING DEVICE

(51) International classification	:F01P0007140000, F01P0007160000, F01P0003020000, F01P0011020000, C09K0005200000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-188064	(72)Name of Inventor : 1)Kento NISHIHARA 2)Koki FUKASAWA
(32) Priority Date	:18/11/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ENGINE COOLING DEVICE 5 An expansion portion 27 includes a first casing attachment boss portion 28A which is fastened to a lower portion 50A of a cooling water introduction casing 50 by a bolt 11, a second casing attachment boss portion 28B which is fastened to an upper portion 50B of the cooling water introduction casing 50 by the bolt 11, a first flange portion 29A which extends from a cooling water introduction port 30 laterally to the side of a first cover 10 attachment boss portion 26A, and a second flange portion 29B which extends laterally from the cooling water introduction port 30 to the side of a second cover attachment boss portion 26B. The first casing attachment boss portion 28A and the second casing attachment boss portion 28B are respectively disposed at the front end portions of the first flange portion 29A and the second flange portion 29B in the extension direction and are 15 connected to the first cover attachment boss portion 26A and the second cover attachment boss portion 26B.

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060130 A

(19) INDIA

(22) Date of filing of Application :20/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CYLINDER BLOCK OF ENGINE

(51) International classification	:F02F0007000000, F01M0011020000, F02F0001140000, F01P0003020000, F01M0011000000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-188063	(72)Name of Inventor : 1)Yutaro USUI
(32) Priority Date	:18/11/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Document Name] Abstract [Abstract] [Object] It is to provide a cylinder block of an engine capable of preventing a noise from occurring due to a deformation of the cylinder block during engine operation while lightening the cylinder block. [Solution] In the cylinder block, an outer surface 8A of a skirt portion 8 is formed with first to fourth reinforcing ribs 11 to 14, the first and second reinforcing ribs 11, 12 intersecting with each other at a central portion of the skirt portion in a cylinder row direction to thereby form X-shape and being connected to first and second end wall portions 5, 6, the third and fourth reinforcing ribs 13, 14 being arranged below the first and second reinforcing ribs to form V-shape and being connected to the first and second reinforcing ribs and a central portion of an oil attachment flange portion 7 in the cylinder row direction. A bottom of the V-shape is connected to the central portion of the oil attachment flange portion and upper ends thereof are connected to the respective first and second reinforcing ribs. [Selected Figure] Figure 1

No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060132 A

(19) INDIA

(22) Date of filing of Application :20/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : INTELLIGENT POWER MODULE CONTAINING IGBT AND SUPER-JUNCTION MOSFET

(51) International classification	:H01L0029060000, H01L0029780000, H01L0029739000, H01L0029660000, H01L0023495000	(71)Name of Applicant : 1)ALPHA AND OMEGA SEMICONDUCTOR INTERNATIONAL LP Address of Applicant :475 Oakmead Parkway, Sunnyvale, CA 94085, USA U.S.A.
(31) Priority Document No	:17/093,097	(72)Name of Inventor :
(32) Priority Date	:09/11/2020	1)Suh, Bum-Seok
(33) Name of priority country	:U.S.A.	2)Bobde, Madhur
(86) International Application No	:NA	3)Niu, Zhiqiang
Filing Date	:NA	4)Lee, Junho
(87) International Publication No	: NA	5)Xu, Xiaojing
(61) Patent of Addition to Application Number	:NA	6)Zhuang, Zhaorong
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An intelligent power module (IPM) comprises a first, second, third and fourth die supporting elements, a first group of insulated gate bipolar transistors (IGBTs), a second group of IGBTs, a first group of super-junction metal-oxide-semiconductor field-effect transistors (MOSFETs), a second group of super-junction MOSFETs, a fifth die supporting element, a low voltage IC, a high voltage IC, and a molding encapsulation. The low and high voltage ICs are attached to the fifth die supporting element. The molding encapsulation encloses the first, second, third and fourth die supporting elements, the first group of IGBTs, the second group of IGBTs, the first group of super-junction MOSFETs, the second group of super-junction MOSFETs, the fifth die supporting element, the low voltage IC, the high voltage IC.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054619 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CREDENTIAL EXTENSION FOR DATA TRANSFER

(51) International classification	:G06F0021530000, G06Q0020200000, G06Q0020320000, H04W0072080000, G06Q0040060000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,397	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)SHUKLA, Ansh
(33) Name of priority country	:U.S.A.	2)DIEDERICH, Anton K.
(86) International Application No	:NA	3)BYINGTON, Matthew C.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT CREDENTIAL EXTENSION FOR DATA TRANSFER The present application relates to devices and components including apparatus, systems, methods, and computer-readable medium to utilize a credential extension for collection of information for a data transfer. The credential extension may be sandboxed which limit the information to be collected related to the data transfer and/or provide protection for the information collected related to the data transfer.

No. of Pages : 120 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054620 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : QUICK RESPONSE CODES FOR DATA TRANSFER

(51) International classification	:G06Q0020320000, G06Q0020200000, G06K0007100000, G06K0019060000, H04L0009320000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/248,384	(72) Name of Inventor :
(32) Priority Date	:24/09/2021	1)BYINGTON, Matthew C.
(33) Name of priority country	:U.S.A.	2)DIEDERICH, Anton K.
(86) International Application No	:NA	3)YI, Jenna
Filing Date	:NA	4)XIANG, Luojie
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT QUICK RESPONSE CODES FOR DATA TRANSFER The present application relates to devices and components including apparatus, systems, methods, and computer-readable medium to utilize quick response (QR) codes for performing a data transfer between accounts. Embodiments may provide protection from improper use of the QR codes.

No. of Pages : 126 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054624 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOCK MECHANISM OF A STORAGE BOX

(51) International classification :H01M0010480000,
B62K0019460000,
G07F0019000000,
G07C0009000000,
G06F0001180000

(31) Priority Document No :2021-162264

(32) Priority Date :30/09/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)HONDA MOTOR CO., LTD.

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556 Japan Japan

(72)Name of Inventor :

1)YAMADA Tsuyoshi

2)KIKUCHI Takehiko

(57) Abstract :

An object is to simplify a lock mechanism and to enable robust locking. A lock mechanism of a storage box can secure and release a lock pin (43) of a lid member (40) with a rotational operation of a cam member (80, 90), and includes a cam support member (60) for supporting the cam member (80, 90), and a rotation lock plate (57) for restricting the rotational movement of the cam member (80, 90), in which the rotation lock plate (57) is configured to restrict the rotational movement of the cam member (80, 90) in a case that the rotation lock plate (57) is at a position along a contact part (62) provided on the cam support member (60).

No. of Pages : 35 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054648 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PAPER SHEET IDENTIFICATION APPARATUS, PAPER SHEET HANDLING APPARATUS AND PAPER SHEET IDENTIFICATION METHOD

(51) International classification	:G07D0007000000, G07D0007121000, G07D0011400000, G07D0007120000, G07D0011140000	(71)Name of Applicant : 1)Hitachi Channel Solutions, Corp. Address of Applicant :6-3, Osaki 1-chome, Shinagawa-ku, Tokyo 1418576, Japan Japan
(31) Priority Document No	:2021-171082	(72)Name of Inventor : 1)Atsushi KATO
(32) Priority Date	:19/10/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PAPER SHEET IDENTIFICATION APPARATUS, PAPER SHEET HANDLING APPARATUS AND PAPER SHEET IDENTIFICATION METHOD The decrease in the identification accuracy of a paper sheet identification apparatus for a paper sheet is restrained. A paper sheet identification apparatus for identifying a paper sheet includes: the paper sheet identification apparatus comprising: a magnetic noise source that generates a fluctuating magnetic field; a plurality of magnetism detection elements arrayed in a direction perpendicular to a surface of the paper sheet that is conveyed on a conveyance path, the magnetism detection elements detecting magnetism of the paper sheet; a magnetic member that has a magnetic permeability equal to or higher than a predetermined value, the magnetic member being disposed between the plurality of magnetism detection elements and the magnetic noise source; and a computation unit that performs a differential computation of a magnetism detection value of the paper sheet that is conveyed on the conveyance path, based on detection signals detected by the magnetism detection elements.

No. of Pages : 49 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054650 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BANKNOTE HANDLING DEVICE

(51) International classification :G07D0011400000,
B65H0005360000,
G07D0009000000,
B65B0027080000,
B65H0083020000
(31) Priority Document No :2021-184299
(32) Priority Date :11/11/2021
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Hitachi Channel Solutions, Corp.

Address of Applicant :1-6-3 Osaki Shinagawa-ku, Tokyo 141-8576, Japan Japan

(72)Name of Inventor :

1)Masayasu UENO

2)Koki KATSUTA

(57) Abstract :

BANKNOTE HANDLING DEVICE A banknote handling device comprises a feed roller (11), a gate roller (10), a frame that holds the feed roller (11) and the gate roller (10) on either side, an opening/closing mechanism that opens and closes between the feed roller (11) and the gate roller (10), and a pitch plate (16). The pitch plate (16) includes an engagement part (16g) that engages a gate roller bearing (21). The pitch plate (16) has a bearing hole (16a) that supports a feed roller bearing (22). The engagement part (16g) engages the gate roller bearing (21) to secure a closed state between the feed roller (11) and the gate roller (10), and a distance between a predetermined position of the engagement part (16g) and a predetermined position of the bearing hole (16a) defines an overlap amount in the axial direction between a part of a radial face of the feed roller (11) and a part of the radial face of the gate roller (10).

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214057972 A

(19) INDIA

(22) Date of filing of Application :10/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRICAL PARAMETER MONITORING

(51) International classification	:H02J0003140000, H04W0052220000, E06B0003460000, H02H0007085000, H02J0003000000	(71) Name of Applicant : 1)Elspec Engineering Ltd. Address of Applicant :PO Box 3019, Caesarea Industrial Park 38900, Israel Israel
(31) Priority Document No	:17/503,265	(72) Name of Inventor :
(32) Priority Date	:16/10/2021	1)HARARY, Yoram
(33) Name of priority country	:U.S.A.	2)HARARY, Oren
(86) International Application No	:NA	3)HARARI, Nadav
Filing Date	:NA	4)LAIFER, Asaf
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method of monitoring a parameter of an electrical network includes using sensors to measure a value of a parameter of the electrical network during each sampling period within a selected time section. During each iteration of a plurality of iterations of a sliding window algorithm, wherein within each of the iterations a starting time of a sliding window of the sliding window algorithm within the selected time section is incremented by a selected increment, an average of the measured parameter values over the duration of the sliding window for each of the starting times is calculated. The duration of the sliding window in each iteration is different from the duration of sliding windows in other iterations. A representative value of the calculated averages of the parameter is calculated for each iteration. An alert is issued if indicated by the representative value.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058039 A

(19) INDIA

(22) Date of filing of Application :12/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CROSS-FOLD MODULE FOR A FOLDING MACHINE, AND FOLDING MACHINE EQUIPPED THEREWITH.

(51) International classification	:B65H0045140000, B65H0045120000, B65H0045180000, B65H0045300000, B03D0001020000	(71)Name of Applicant : 1)H+H GmbH & Co. KG Address of Applicant :GROSER & GROSER, Patent and Trade Mark Attorneys, of D - 1/5 DLF Qutab Enclave, Phase I, Gurgaon, INDIA. Telephone No. 0124 - 4660500 Fax No. 0124 – 4222364 and 4222365 Mobile No. 9811282273 E-mail. kevin@groserandgroser.com Germany
(31) Priority Document No	:21 202 689.2	(72)Name of Inventor :
(32) Priority Date	:14/10/2021	1)BAHMER, FRANK
(33) Name of priority country	:EUROPEAN UNION	2)MELCHER, EDUARD
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT CROSS-FOLD MODULE FOR A FOLDING MACHINE, AND FOLDING MACHINE EQUIPPED THEREWITH
The cross-fold module (8) for a folding machine (2) comprises a cross-fold knife (40) which is movable in a reciprocating manner in a folding-knife movement direction (F), and a pair of folding rollers (42) which form a folding roller gap (46) in which a sheet that previously was fed in the feeding direction (E) is creased for folding by the cross-fold knife (40). A delivery transport device (54) for the folded product receives the folded product in a receiving portion (56) close to an outlet of the folding roller gap (46) and transports the folded product to a delivery portion (58). At least the cross-fold knife (40) and the pair of folding rollers (42) are adjustable horizontally, perpendicular to the folding-knife movement direction (F) and perpendicular to the feeding direction (E).

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058078 A

(19) INDIA

(22) Date of filing of Application :12/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : QUICK COUPLING AND CONNECTION ASSEMBLY COMPRISING SUCH A QUICK COUPLING

(51) International classification	:F16L0037340000, F16L0037230000, F16L0015000000, F16L0037320000, F16L0037350000	(71) Name of Applicant : 1)STAUBLI FAVERGES Address of Applicant :Place Robert Staubli Faverges 74210 FAVERGES-SEYTHENEX, FRANCE France
(31) Priority Document No	:FR 2110833	(72) Name of Inventor :
(32) Priority Date	:13/10/2021	1)DURIEUX, Christophe
(33) Name of priority country	:France	2)MARQUES BARROCA, Serafim
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT QUICK COUPLING AND CONNECTION ASSEMBLY COMPRISING SUCH A QUICK COUPLING This quick coupling (2) comprises a male element (4) and a female element (6) which respectively comprise a male (42) or female (62) tubular body, a distal mouth and a movable shutter (46) or a plunger (64) and a spool (66). A first seal (48) is partially housed in a groove in the male tubular body (42) and rests radially on a cylindrical surface of the movable shutter (46) in the advanced position. A second seal (68) rests radially on a cylindrical wall of the plunger (64). The first seal (48) comprises a front surface (S48) which is further advanced than a first edge plane (P4) along a longitudinal axis (X4) of the male tubular body (42). The second seal (68) comprises a front surface (S68) which is further advanced than a second edge plane (P6) along a longitudinal axis (X6) of the female tubular body (62). The first and second front surfaces are adapted to contact each other when the male (4) and female (6) elements are fitted together.

No. of Pages : 46 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058345 A

(19) INDIA

(22) Date of filing of Application :12/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR DETECTING FAILURE OF AN INDIVIDUAL INJECTOR, COMPUTER PROGRAM PRODUCT AND CONTROLLER

(51) International classification	:F02D0041380000, F02D0041200000, F02D0041240000, F01N0003200000, B60W0030180000	(71)Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:202111196546.5	(72)Name of Inventor : 1)SUN, Xudong
(32) Priority Date	:14/10/2021	2)WU, Jiadi
(33) Name of priority country	:China	3)LI, Peiwen
(86) International Application No	:NA	4)GONG, Jianxiong
Filing Date	:NA	5)LU, Jiawei
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD FOR DETECTING FAILURE OF AN INDIVIDUAL INJECTOR, COMPUTER PROGRAM PRODUCT AND CONTROLLER The present subject matter provides a method for detecting failure of an individual injector during operation of a vehicle, comprising: an operating condition detecting step (S01) for detecting an operating condition of the vehicle; a step of selecting a particular operating state (S02), in which the operating state is compared to a predefined set of particular operating states; an energization time measurement step (S03) for obtaining an actual energization duration of the individual injector when the operating condition corresponds to a specific operating condition in the predefined set of specific operating conditions; a comparison step (S04) in which the actual duration of energization is compared to a predefined target duration of energization in the specific operating state; and a determination step (S05) for determining the individual injector failure if the difference between the actual energization duration and the target energization duration exceeds a predefined drift threshold value.

No. of Pages : 10 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053563 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : THROUGH-DISPLAY INTERFEROMETRIC PROXIMITY AND VELOCITY SENSING

(51) International classification	:H01L0031023200, A61M0005168000, G06F0003030000, A61B0005024000, G01N0021770000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/247,219	(72) Name of Inventor :
(32) Priority Date	:22/09/2021	1)CHEN, Tong
(33) Name of priority country	:U.S.A.	2)VAIL, Edward
(86) International Application No	:NA	3)WINKLER, Mark T.
Filing Date	:NA	4)GAO, Yongkang
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT THROUGH-DISPLAY INTERFEROMETRIC PROXIMITY AND VELOCITY SENSING An optical sensing system includes a transmitter side and a receiver side, and is configured to be positioned below a display of an electronic device. The transmitter side includes a light emitter. The receiver side includes an array of photodiodes. The light emitter of the transmitter side and the array of photodiodes of the receiver side are optically coupled via a waveguide. As a result of this construction, the optical sensing system can be operated as an interferometric optical sensor.

No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053565 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRODES FOR GESTURE RECOGNITION

(51) International classification	:G06F0003010000, A61B0005048800, A61B0005000000, A61B0005110000, A61B0005049200	(71)Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/261,656	(72)Name of Inventor :
(32) Priority Date	:24/09/2021	1)DOGRUSOZ, Kaan E.
(33) Name of priority country	:U.S.A.	2)MOIN, Ali
(86) International Application No	:NA	3)GRENA, Benjamin J.
Filing Date	:NA	4)AZEMI, Erdrin
(87) International Publication No	: NA	5)CHENG, Joseph
(61) Patent of Addition to Application Number	:NA	6)UESATO, Lia M.
Filing Date	:NA	7)PODHAJNY, Daniel A.
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ELECTRODES FOR GESTURE RECOGNITION Electrodes that can be formed in a flexible band of a wrist-worn device to detect hand gestures are disclosed. Multiple rows of electrodes can be configured to detect electromyography (EMG) signals produced by activity of muscles and tendons. The band can include removable electrical connections (e.g., pogo pins) to enable the electrode signals to be routed to processing circuitry in the housing of the wrist-worn device. Measurements between signals from the active electrodes and one or more reference electrodes can be obtained to capture EMG signals at a number of locations on the band. The measurement method and mode of operation (lower power coarse detection or higher power fine detection) can determine the location and number of electrodes to be measured. These EMG signals can be processed to identify hand movements and recognize gestures associated with those hand movements.

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053568 A

(19) INDIA

(22) Date of filing of Application :19/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : CONTROLLER AND CORRESPONDING COMPUTER PROGRAM PRODUCT

(51) International classification	:F01N0003200000, B01D0053940000, F01N0011000000, B41J0002165000, F02D0041000000	(71)Name of Applicant : 1)ROBERT BOSCH GMBH Address of Applicant :Postfach 30 02 20, 70442 Stuttgart, Germany Germany
(31) Priority Document No	:202111112313.2	(72)Name of Inventor :
(32) Priority Date	:23/09/2021	1)WU, Shumei
(33) Name of priority country	:China	2)SUN, Dezeng
(86) International Application No	:NA	3)LI, Luning
Filing Date	:NA	4)TIAN, Wei
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT CONTROLLER AND CORRESPONDING COMPUTER PROGRAM PRODUCT The present subject matter provides a controller (40) for a tail gas treatment system of a diesel vehicle, the tail gas treatment system including an exhaust pipe (20), an SCR module (10) disposed on the exhaust pipe (20), and an ejector (11) for ejecting a reducing agent into the exhaust pipe (20), where the controller (40) is configured to: when it is detected that the diesel vehicle meets preparatory conditions, control the ejector (11) to enter an amount-increased ejection state from a normal ejection state, where in the amount-increased ejection state, the ejector (11) ejects the reducing agent in a manner of using an ejection amount an added amount more than that in normal ejection, and the preparatory conditions include the engine being about to be shut down. The present subject matter can solve the problem of insufficient reducing agent in cold-start phase of a vehicle in the prior art.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214053674 A

(19) INDIA

(22) Date of filing of Application :20/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : THERMOELECTRIC POWER GENERATION ON A PAVING MACHINE

(51) International classification	:E01C0019480000, H01L0035320000, H02N0011000000, H01L0035300000, H02J0007320000	(71)Name of Applicant : 1)CATERPILLAR PAVING PRODUCTS INC. Address of Applicant :9401 85th Avenue NorthBrooklyn Park, Minnesota 55445-2199, United States of America. U.S.A.
(31) Priority Document No	:17/495843	(72)Name of Inventor :
(32) Priority Date	:07/10/2021	1)RIFE, Jr., Conwell K.
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

THERMOELECTRIC POWER GENERATION ON A PAVING MACHINE ABSTRACT An electrically powered paving machine (10, 11) can include a hopper (13, 14); a screed assembly (16); a conveying system (18, 35); one or more batteries (410) configured to power the electrically powered paving machine (10, 11); a plurality of thermoelectric generators (405) electrically connected to the one or more batteries (410); a potential thermal energy conversion device (415) electrically connected to the one or more batteries (410); and processing circuitry (430). Additionally, the electrically powered paving machine (10, 11) can control charging the one or more batteries (410) using electrical energy generated by one or more of the plurality of thermoelectric generators (405) and/or the potential thermal energy conversion device (415).

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060205 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : LOAD BEARING ARTICLE

(51) International classification	:B32B0037100000, A61F0013513000, B60H0001000000, C12Q0001000000, E01C0005200000	(71)Name of Applicant : 1)CHONG SENG SHIA Address of Applicant :12A, Jln SB Jaya 1, Tmn Industri SB Jaya, 47000 Sungai Buloh Selangor, Malaysia Malaysia 2)NATHANAEL CHONG YEH KWANG
(31) Priority Document No	:PI2021006369	(72)Name of Inventor :
(32) Priority Date	:23/10/2021	1)CHONG SENG SHIA
(33) Name of priority country	:Malaysia	2)NATHANAEL CHONG YEH KWANG
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT LOAD BEARING ARTICLE The present invention relates to a load bearing article (101) used for supporting at least one structure (102), comprising of at least one body (103) with top surface (105), bottom surface (107) and at least one side surface (109); wherein said body (103) is made of natural or synthetic elastomeric material and said top surface (105) comprises of at least one recessed portion (111, 113).

No. of Pages : 24 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060296 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD OF MAKING REVERSE CONDUCTING INSULATED GATE BIPOLAR TRANSISTOR

(51) International classification	:H01L0029739000, H01L0029060000, H01L0029080000, H03K0017567000, H01L0029740000	(71)Name of Applicant : 1)ALPHA AND OMEGA SEMICONDUCTOR INTERNATIONAL LP Address of Applicant :475 Oakmead Parkway, Sunnyvale, CA 94085, USA U.S.A.
(31) Priority Document No	:16/824,598	(72)Name of Inventor :
(32) Priority Date	:19/03/2020	1)Niu, Zhiqiang
(33) Name of priority country	:U.S.A.	2)Wang, Long-Ching
(86) International Application No	:NA	3)Ho, Yueh-Se
Filing Date	:NA	4)Guan, Lingpeng
(87) International Publication No	: NA	5)Li, Wenjun
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A process is applied to develop a plurality of reverse conducting insulated gate bipolar transistors (RCIGBTs). The process comprises the steps of providing a wafer, applying a first grinding process, patterning a mask, applying an etching process, removing the mask, implanting N++ type dopant, applying a second grinding process forming a TAIKO ring, implanting P+ type dopant, annealing and depositing TiNiAg or TiNiVAg, removing the TAIKO ring, attaching a tape, and applying a singulation process. The mask can be a soft mask or a hard mask. The etching process can be a wet etching only; a wet etching followed by a dry etching; or a dry etching only

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060346 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR MONITORING CROP YIELD FOR AN AGRICULTURAL HARVESTER

(51) International classification	:A01D0041127000, G06Q0050020000, A01D0041120000, G06Q0010040000, A61K0009700000	(71)Name of Applicant : 1)CNH Industrial (India) Private Limited Address of Applicant :Level- 4, Rectangle- 1, D-4, District Center, Commercial Complex, Saket , New Delhi – 110017, India New Delhi Delhi India
(31) Priority Document No	:102021021947-5	(72)Name of Inventor :
(32) Priority Date	:31/10/2021	1)DAENIO CLEODOLPHI
(33) Name of priority country	:Brazil	2)JOAO AUGUSTO MARCOLIN LUCCA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE DISCLOSURE In one aspect, a system for monitoring crop yield for an agricultural harvester includes a material processing system configured to receive a flow of harvested materials, a first sensor configured to generate data indicative of a volume of the flow of harvested materials being directed through the material processing system, and a second sensor configured to generate data indicative of a density of the flow of harvested materials being directed through the material processing system. In addition, the system includes a computing system communicatively coupled to the first and second sensors, with the computing system being configured to determine a mass flow rate of the flow of harvested materials through the material processing system based at least in part on the data received from the first and second sensors.

No. of Pages : 37 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060347 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ESTIMATING CROP YIELD FOR AN AGRICULTURAL HARVESTER USING A MACHINE-LEARNED MODEL

(51) International classification	:G06N0020000000, G06N0003040000, A01D0041127000, A01D0041120000, A01D0061000000	(71) Name of Applicant : 1)CNH Industrial (India) Private Limited Address of Applicant :Level- 4, Rectangle- 1, D-4, District Center, Commercial Complex, Saket , New Delhi – 110017, India Delhi India
(31) Priority Document No	:102021021948-3	(72) Name of Inventor :
(32) Priority Date	:31/10/2021	1)JOAO AUGUSTO MARCOLIN LUCCA
(33) Name of priority country	:Brazil	2)MATHEUS EDUARDO DOS SANTOS
(86) International Application No	:NA	3)RICARDO BREDA PORCELLI
Filing Date	:NA	4)DAENIO CLEODOLPHI
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE DISCLOSURE In one aspect, a computing system for estimating crop yields for agricultural harvesters. The computing system includes one or more processors, and one or more non-transitory computer-readable media that collectively store a machine-learned yield estimation model configured to receive data associated with one or more operation-related conditions for an agricultural harvester and process the data to determine a yield-related parameter indicative of a crop yield for the agricultural harvester. In addition, the computer-readable media stores instructions that, when executed by the one or more processors, configure the computing system to perform operations, the operations comprising: obtaining the data associated with one or more operation-related conditions; inputting the data into the machine-learned yield estimation model; and receiving a value for the yield-related parameter as an output of the machine-learned yield estimation model.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060375 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : HYDROGEN STORAGE AND DISPENSING APPARATUS AND METHOD

(51) International classification	:C01B0003000000, B82Y0030000000, G08B0003100000, G16Z0099000000, F17C0011000000	(71)Name of Applicant : 1)AIR PRODUCTS AND CHEMICALS, INC. Address of Applicant :1940 AIR PRODUCTS BOULEVARD, ALLENTOWN, PA 18106-5500, USA U.S.A.
(31) Priority Document No	:17/514,053	(72)Name of Inventor :
(32) Priority Date	:29/10/2021	1)ANTHONY R. KYVELOS (DECEASED)
(33) Name of priority country	:U.S.A.	2)JOSEPH P. COHEN
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT HYDROGEN STORAGE AND DISPENSING APPARATUS AND METHOD A hydrogen generator can adjust production as necessary depending on station usage. When the generator is running at a high output and there isn't enough usage from a dispenser, then excess hydrogen can be fed to storage in at least one trailer. As the generator attempts to match usage rates, it may slow down. If the production rate is slowed and the dispensing need for hydrogen subsequently increases, then the required additional supply can be provided from the at least one trailer until the generator ramps up output to meet the increased demand. The trailer storage can allow for matching of usage with production. At least one trailer can be maintained at each pressure level at a station to enable trailers to be removed as they become full or to be replaced as they become empty to match station demand and provide import and export capability.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060407 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : HEAT EXCHANGER FOR POWER ELECTRONICS

(51) International classification	:A61K0039000000, A61K0009000000, A61P0009000000, A61P0025000000, F28F0021040000	(71)Name of Applicant : 1)CARRIER CORPORATION Address of Applicant :13995 Pasteur Blvd., Palm Beach Gardens, Florida 33418, United States of America U.S.A.
(31) Priority Document No	:63/272,359	(72)Name of Inventor :
(32) Priority Date	:27/10/2021	1)JOARDAR, Arindom
(33) Name of priority country	:U.S.A.	2)MOHANTA, Lokanath
(86) International Application No	:NA	3)BORISOV, Konstantin
Filing Date	:NA	4)AGIRMAN, Ismail
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT HEAT EXCHANGER FOR POWER ELECTRONICS A power electronics assembly includes one or more power electronics devices, and a heat exchanger to which the one or more power electronics devices are mounted. 5 The heat exchanger includes one or more fluid pathways extending through the heat exchanger to transfer thermal energy from the one or more power electronics devices into a flow of fluid passing through the one or more fluid pathways. The flow of fluid is a flow of liquid refrigerant diverted from a condenser of a heating, ventilation, and air conditioning (HVAC) system. The one or more power electronics devices includes at 10 least one power electronics device located on each opposing lateral side of the heat exchanger.

No. of Pages : 22 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060450 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : STENT

(51) International classification	:A61F0002915000, A61B0017000000, A61B0017110000, A61F0002820000, A61F0002040000	(71) Name of Applicant : 1)OPTIMED MEDIZINISCHE INSTRUMENTE GMBH Address of Applicant :Ferdinand-Porsche-Straße 11 76275 Ettlingen, Germany Germany
(31) Priority Document No	:102021127509.1	(72) Name of Inventor :
(32) Priority Date	:22/10/2021	1)WACK, Thilo
(33) Name of priority country	:Germany	2)WILLE, Thomas
(86) International Application No	:NA	3)SCHMIDT, Fabian
Filing Date	:NA	4)ZIPSE, Achim
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract STENT The invention relates to a stent for transluminal implantation into hollow organs, in particular into blood vessels, ureters, esophagi, the colon, the duodenum, the airways or the biliary tract, comprising an at least substantially tubular body that extends along a longitudinal direction and that can be converted from a compressed state having a first cross-sectional diameter into an expanded state having an enlarged second cross-sectional diameter. The stent in accordance with the invention is characterized in that the tubular body comprises an inner body and an outer body, with the outer body surrounding the inner body at least regionally, with the outer body completely running around at least one section of the inner body, and the outer body is formed from a bioresorbable material or comprises a bioresorbable material.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060452 A

(19) INDIA

(22) Date of filing of Application :21/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : STENT

(51) International classification	:A61F0002915000, A61F0002820000, A61F0002900000, A61B0017110000, A61F0002040000	(71) Name of Applicant : 1)OPTIMED MEDIZINISCHE INSTRUMENTE GMBH Address of Applicant :Ferdinand-Porsche-Straße 11 76275 Ettlingen, Germany Germany
(31) Priority Document No	:102021127510.5	(72) Name of Inventor :
(32) Priority Date	:22/10/2021	1)WILLE, Thomas
(33) Name of priority country	:Germany	2)WACK, Thilo
(86) International Application No	:NA	3)SCHMIDT, Fabian
Filing Date	:NA	4)ZIPSE, Achim
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT STENT The present invention relates to a stent for transluminal implantation into hollow organs, in particular into blood vessels, ureters, esophagi, the colon, the duodenum, the airways or the biliary tract, comprising an at least substantially tubular body that extends along a longitudinal direction and that can be converted from a compressed state having a first cross-sectional diameter into an expanded state having an enlarged second cross-sectional diameter, wherein the stent comprises a stent body composed of a biostable material, characterized in that the stent body comprises a plurality of stent sections, preferably annular stent sections, that are in particular separate from one another, and the stent has a support structure that connects the stent sections to one another, wherein the support structure is formed from a bioresorbable material or comprises a bioresorbable material.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060913 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : PULLEY DEVICE

(51) International classification	:F16H0055560000, F16H0009180000, E21B0017042000, H01R0013629000, F16H0063060000	(71) Name of Applicant : 1)EXEDY Corporation Address of Applicant :1-1, Kidamotomiya 1-chome, Neyagawa-shi, Osaka 572-8570 JAPAN Japan
(31) Priority Document No	:2021-187951	(72) Name of Inventor :
(32) Priority Date	:18/11/2021	1)KIMOTO, Yutaka
(33) Name of priority country	:Japan	2)IMAI, Ryoichi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The pulley device includes a fixed sheave, a fixed boss, a movable sheave, a movable boss, a pin, and a slider. The fixed boss extends in an axial direction from the fixed sheave. The movable sheave is movably disposed in the axial direction. The movable boss includes a cam groove. The cam groove includes a torque input surface facing the rotational first side. The cam groove is inclined with respect to the axial direction, the cam groove extends in the axial direction. The movable boss extends in the axial direction from the movable sheave. The movable boss is disposed radially outside the fixed boss. The movable boss has a cylindrical shape. The pin includes a torque receiving surface that faces the torque input surface. The pin is disposed in the cam groove. The pin is fixed to the fixed boss. The slider is located between the pin and the torque input surface. The torque receiving surface is a flat surface extending along the torque input surface, or a concave surface recessed away from the torque input surface.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054654 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BANKNOTE HANDLING DEVICE AND TELLER DEVICE

(51) International classification	:G07D0009000000, G07F0019000000, G07D0011400000, B65H0005360000, G07D0011180000	(71)Name of Applicant : 1)Hitachi Channel Solutions, Corp. Address of Applicant :1-6-3 Osaki Shinagawa-ku, Tokyo 141- 8576, Japan Japan
(31) Priority Document No	:2021-181493	(72)Name of Inventor :
(32) Priority Date	:05/11/2021	1)Kohei MIYAMOTO
(33) Name of priority country	:Japan	2)Masayasu UENO
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

BANKNOTE HANDLING DEVICE AND TELLER DEVICE An excitation mechanism that applies a vibration to a 5 return path includes a guide roller having a protrusion and a recess along an outer peripheral surface, and a roller pressed against the guide roller.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054661 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE FRONT STRUCTURE AND RESIN COVER

(51) International classification	:B62D0025080000, B62D0021150000, B60Q0001040000, H05K0001020000, C08J0009000000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611, Japan Japan
(31) Priority Document No	:2021-160506	(72)Name of Inventor : 1)Atsushi NAKAMURA
(32) Priority Date	:30/09/2021	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

VEHICLE FRONT STRUCTURE AND RESIN COVER Provided are a vehicle front structure and a resin cover capable of promoting deformation of an air intake cover and the resin cover when subjected to an external force from above, even if the insides of the air intake cover and the resin cover are coupled in the up-and-down 10 direction. A vehicle front structure 100 according to the present invention includes: an air intake portion 102 that is provided in a dash panel 106 dividing a vehicle front portion and a vehicle cabin, and through which air is taken in by an air-conditioning unit 119 installed in the vehicle 15 cabin; and an air intake cover 104 that forms a flow path that guides outside air introduced from a cowl portion 123 to a vehicle front portion to the air intake portion, wherein the air intake cover includes an upper wall 124 defining an upper side of the flow path, a pair of side 20 walls 126 and 128 extending continuously from both ends of the upper wall in a vehicle width direction to the dash panel and defining both sides of the flow path in the vehicle width direction, a coupling portion 130 coupled to the air intake portion or the dash panel below the upper 25 wall, and support portions 132 and 134 extending from the upper wall and connected to the coupling portion to support the coupling portion, and at least one of the at least one support portion extends in a direction that is not perpendicular to the upper wall.

No. of Pages : 53 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054704 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : USER INTERFACES FOR FACILITATING OPERATIONS

(51) International classification	:G06F0003048800, G06F0003160000, G06F0003034600, G10L0015220000, G06F0003010000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/334,514	(72) Name of Inventor :
(32) Priority Date	:25/04/2022	1)CARRIGAN, Taylor G.
(33) Name of priority country	:U.S.A.	2)CHAO, Edward
(86) International Application No	:NA	3)CHEN, Kevin W.
Filing Date	:NA	4)FOSS, Christopher P.
(87) International Publication No	: NA	5)NIXON, Paul T.
(61) Patent of Addition to Application Number	:NA	6)PATTON, Jennifer D.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

USER INTERFACES FOR FACILITATING OPERATIONS The present disclosure generally relates to user interfaces for facilitating operations. In some examples, computer systems provide indications that educate and/or guide users for performing an operation. In some examples, computer systems perform a first operation based on a first type of user input corresponding to a first hardware input device and perform a second operation based on a second type of user input corresponding to the first hardware input devices. In some examples, computer systems adjust audio output of an emergency siren based on detecting a particular type of event. In some examples, computer systems display different types and/or sizes of notifications based on an operating mode of a respective computer system. In some examples, computer systems forgo performing one or more operations when a respective computer system operates in a low power mode. To be published with Fig.6A

No. of Pages : 322 No. of Claims : 143

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214054705 A

(19) INDIA

(22) Date of filing of Application :23/09/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : USER INTERFACES FOR FACILITATING OPERATIONS

(51) International classification	:G06F0003048800, G06F0003160000, G06F0003034600, G10L0015220000, G06F0003010000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/334,514	(72) Name of Inventor :
(32) Priority Date	:25/04/2022	1)CARRIGAN, Taylor G.
(33) Name of priority country	:U.S.A.	2)CHAO, Edward
(86) International Application No	:NA	3)CHEN, Kevin W.
Filing Date	:NA	4)FOSS, Christopher P.
(87) International Publication No	: NA	5)NIXON, Paul T.
(61) Patent of Addition to Application Number	:NA	6)PATTON, Jennifer D.
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT USER INTERFACES FOR FACILITATING OPERATIONS The present disclosure generally relates to user interfaces for facilitating operations. In some examples, computer systems provide indications that educate and/or guide users for performing an operation. In some examples, computer systems perform a first operation based on a first type of user input corresponding to a first hardware input device and perform a second operation based on a second type of user input corresponding to the first hardware input devices. In some examples, computer systems adjust audio output of an emergency siren based on detecting a particular type of event. In some examples, computer systems display different types and/or sizes of notifications based on an operating mode of a respective computer system. In some examples, computer systems forgo performing one or more operations when a respective computer system operates in a low power mode.

No. of Pages : 293 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058381 A

(19) INDIA

(22) Date of filing of Application :12/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE STERILIZATION SYSTEM AND STERILIZATION METHOD

(51) International classification	:A61L0002200000, A61L0002240000, A61L0002100000, A61L0002180000, A61L0002140000	(71)Name of Applicant : 1)GOGORO INC. Address of Applicant :3806 CENTRAL PLAZA, 18 HARBOUR ROAD, WANCHAI, HONG KONG Hongkong(China)
(31) Priority Document No	:63/255,536	(72)Name of Inventor :
(32) Priority Date	:14/10/2021	1)Hok-Sum Horace LUKE
(33) Name of priority country	:U.S.A.	2)Chun-Jen TSAI
(86) International Application No	:NA	3)Chih-Yuan CHEN
Filing Date	:NA	4)Ching-Chang NI
(87) International Publication No	: NA	5)Wen-Hsien TSENG
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT VEHICLE STERILIZATION SYSTEM AND STERILIZATION METHOD A vehicle sterilization system (100) and a sterilization method are provided. The sterilization method for the vehicle sterilization system (100), comprising: receiving a detection signal, and determining whether a seat cushion (H11) of a vehicle (H10) covers a space (HS) of a compartment (H12) according to a voltage level of the detection signal; when the seat cushion (H11) does not completely cover the space (HS) of the compartment (H12), controlling a power supply unit (110) to stop supplying power; when the seat cushion (H11) covers the space (HS) of the compartment (H12), controlling the power supply unit (110) to supply power to a sterilization device (120).

No. of Pages : 44 No. of Claims : 20

(54) Title of the invention : BATTERY

(51) International classification	:H01M0010613000, H01M0010040000, H01M0010655600, H01M0050200000, F21S0009020000	(71)Name of Applicant : 1)KABUSHIKI KAISHA TOSHIBA Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-0023, Japan Japan
(31) Priority Document No	:2022-001111	(72)Name of Inventor :
(32) Priority Date	:06/01/2022	1)Takahiro Aizawa
(33) Name of priority country	:Japan	2)Kuniaki Yamamoto
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT In one embodiment/ a battery includes an exterior unit/ an electrode group/ an electrode terminal/ tab bundles and a lead. The electrode group is housed in an interior cavity of 5 the exterior unit/ and the electrode terminal is exposed to an outside. Current collecting tabs are stacked in the thickness direction of the electrode group in each of the tab bundles having the same polarity. The tab bundles protrude from the electrode group to the same side in the length direction 10 of the electrode group. The lead establishes an electric connection between the respective tab bundles and the electrode terminal. The tab bundles are bonded to the lead at positions deviated from one another in the thickness direction/ and are mounted on the lead from the same side in the thickness 15 direction.

No. of Pages : 50 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058503 A

(19) INDIA

(22) Date of filing of Application :13/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR CLASSIFYING A PARTIAL DISCHARGE IN AN ELECTRICAL CONDUCTOR OF A MEDIUM VOLTAGE ELECTRICAL DEVICE

(51) International classification	:G01R0031120000, H01B0003300000, A61K0009000000, H02G0015184000, H01M0004380000	(71) Name of Applicant : 1)Schneider Electric Industries SAS Address of Applicant :35 rue Joseph Monier, F-92500 Rueil Malmaison – France France
(31) Priority Document No	:FR2111326	(72) Name of Inventor :
(32) Priority Date	:25/10/2021	1)BOGUSLAWSKI Bartosz
(33) Name of priority country	:France	2)ALBERTO Diego
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract The invention relates to a method for classifying a partial discharge in an insulator (5) of an electrical conductor (1) of a medium voltage or high voltage electrical device (2), the method allowing a partial discharge to be classified from between at least 5 one first class (C1) and a second class (C2) distinct from the first class (C1), the method comprising the steps: - obtain a set (P) of samples each corresponding to at least one partial discharge, - determine a classification model (M2) by automatic learning based on at least one statistical quantity (G) of the samples of the set (P), 10 - acquire a new sample (En+1) corresponding to at least one partial discharge, - determine the class (C1, C2) of the partial discharge associated w

No. of Pages : 29 No. of Claims : 11

(54) Title of the invention : HEAD FOR THE MANUFACTURE OF A FLEXIBLE TUBE AND TUBE COMPRISING SUCH A HEAD

(51) International classification	:B29L0023200000, A61B0001000000, C08L0023060000, B21C0037120000, B32B0027320000	(71) Name of Applicant : 1)ALBEA SERVICES Address of Applicant :1 Avenue du Général de Gaulle, ZAC des Barbanniers – « LE SIGNAC », 92230 GENNEVILLIERS, France France
(31) Priority Document No	:2110943	(72) Name of Inventor :
(32) Priority Date	:14/10/2021	1)DEFERT Sylvain
(33) Name of priority country	:France	2)FRITSCH Franck
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A head (1) for the manufacture of a flexible tube for containing a liquid or pasty product, having a reduced height (h7) in relation to its diameter (d) and comprising a base 5 (2) configured to be attached to a skirt of said tube and a cover (3) pivotally mounted on the base (2) between an open position and a closed position, the head (1) comprising at least one anti-tamper system having at least two legs (81) projecting from the cover (3), the legs (81) being connected to each other by at least one continuous breakable bridge

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214058506 A

(19) INDIA

(22) Date of filing of Application :13/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : METHOD FOR DETECTING AN ABNORMAL EVENT IN AN ELECTRICAL CONDUCTOR OF A MEDIUM VOLTAGE ELECTRICAL DEVICE

(51) International classification	:G01R0015160000, G06F0011140000, H04B0003540000, G01R0015220000, G05B0023020000	(71)Name of Applicant : 1)Schneider Electric Industries SAS Address of Applicant :35 rue Joseph Monier, F-92500 Rueil Malmaison - France France
(31) Priority Document No	:FR2111325	(72)Name of Inventor :
(32) Priority Date	:25/10/2021	1)BOGUSLAWSKI Bartosz
(33) Name of priority country	:France	2)ALBERTO Diego
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract A method for detecting an abnormal event in an insulator (5) of an electrical conductor (1) of a medium-voltage or high-voltage electrical device (2), the method comprising the following steps: 5 - acquiring a set (Sn) of successive samples (E1, ..., En) of a vibration signal (V) associated with the electrical conductor (1), - determining a modelled value (Mn+1) of a following sample (En+1) based on the acquired set (Sn) of samples and on a prediction model, the prediction model being obtained through machine learning of the vibration signal 10 (V) based on a set (Vp) of samples acquired in reference conditions (CRef) in which the electrical conductor (1) is free from any abnormal event, - acquiring the following sample (En+1) of the vibration signal (V), - calculating a difference (Dn+1) between the value of the acquired sample (En+1) and the modelled value (Mn+1), 15 - if the calculated difference (Dn+1) is greater than a predetermined threshold (Th), detecting an abnormal event in the electrical conductor (1).

No. of Pages : 23 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062272 A

(19) INDIA

(22) Date of filing of Application :01/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ENHANCEMENTS FOR USER EQUIPMENT NETWORK SLICE MANAGEMENT

(51) International classification	:H04W0048180000, H04W0060000000, H04W0048160000, H04W0008060000, H04W0074040000	(71) Name of Applicant : 1)APPLE INC. Address of Applicant :One Apple Park Way Cupertino, California 95014, United States of America U.S.A.
(31) Priority Document No	:63/263,412	(72) Name of Inventor :
(32) Priority Date	:02/11/2021	1)MYSORE VISWANATH, Vinay
(33) Name of priority country	:U.S.A.	2)VENKATARAMAN, Vijay
(86) International Application No	:NA	3)GUPTA, Vivek G.
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT ENHANCEMENTS FOR USER EQUIPMENT NETWORK SLICE MANAGEMENT A user equipment (UE) configured to transmit a registration request message to a network, the registration request message comprising a request to register to a set of one or more single-network slice selection assistance information (S-NSSAIs), receive a response to the registration request message, the response indicating that the request to register to the set of one or more S-NSSAIs is rejected and store the set of one or more S-NSSAIs in a rejected NSSAI list locally at the UE.

No. of Pages : 64 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062279 A

(19) INDIA

(22) Date of filing of Application :01/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : HEAT DISSIPATING COMPONENT AND LIGHTING FIXTURE

(51) International classification	:G02F0001133300, A01K0089015000, H01F0027020000, H02K0001278000, B32B0015200000	(71)Name of Applicant : 1)Panasonic Intellectual Property Management Co., Ltd. Address of Applicant :1-61, Shiromi 2-chome, Chuo-ku, Osaka-shi, Osaka 540-6207 (JP) Osaka-shi Japan
(31) Priority Document No	:2021-182535	(72)Name of Inventor :
(32) Priority Date	:09/11/2021	1)SAKURAI, Satoru
(33) Name of priority country	:Japan	2)HIRASHIMA, Ryuichi
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Object] To provide a heat dissipating component with a high rigidity even when the heat dissipating component is made of a metal plate and a lighting fixture. [Means to Achieve the Object] Heat dissipating fin 30 (heat dissipating component) which includes a bottom portion to be attached to a pedestal, includes: first side plate portion 31; second side plate portion 32 opposite to first side plate portion 31; first coupling piece 81 which extends from first lateral side 31a of first side plate portion 31 toward first lateral side 32a of second side plate portion 32; and second coupling piece 82 which extends from first lateral side 32a of second side plate portion 32 toward first lateral side 31a of first side plate portion 31. First side plate portion 31 and second side plate portion 32 are coupled with each other by engagement of first coupling piece 81 with second coupling piece 82.

No. of Pages : 58 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062292 A

(19) INDIA

(22) Date of filing of Application :01/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ORTHO-RADIAL INDUCTION GENERATOR

(51) International classification	:H02K0007180000, H02P0009460000, H02K0035020000, H02P00090000000, H02P0101150000	(71)Name of Applicant : 1)Ori Solution Oy Address of Applicant :Metsä-Pietilänkatu 4, 15800 Lahti, Finland Finland
(31) Priority Document No	:21172483.6	(72)Name of Inventor :
(32) Priority Date	:06/05/2021	1)Waldén, Reijo
(33) Name of priority country	:EPO	2)Järvinen, Jarmo
(86) International Application No	:NA	3)Berndtsson, Joakim
Filing Date	:NA	4)Meller, Mika
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A generator (10) comprising a rotor (50), at least one magnetic bridging element (51) arranged to rotate about a rotation axis (X) of the rotor (50) in response to the rotation of the rotor (50), at least one inductance unit (61) at an area of an influence (G2) of the moving magnetic bridging element (51) for inducing electromotive force in response to the movement of the magnetic bridging element (51) relative to the inductance unit (61), and at least one flow channel unit (40) for conveying a fluid flow to the rotor (50) for operating the rotor (50).

No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062320 A

(19) INDIA

(22) Date of filing of Application :01/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:H01L0027320000, B60K0035000000, H01L0027120000, G09G0003200000, H04N0005640000	(71)Name of Applicant : 1)Samsung Display Co., LTD. Address of Applicant :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea. Republic of Korea
(31) Priority Document No	:10-2021-0150836	(72)Name of Inventor : 1)Yong Hee LEE
(32) Priority Date	:04/11/2021	2)Jin Seon KWAK
(33) Name of priority country	:Republic of Korea	3)Kyung Bae KIM
(86) International Application No	:NA	4)Ji Hye LEE
Filing Date	:NA	5)Ki Hyun PYO
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT DISPLAY DEVICE A display device (100) includes a first electrode (ELT1) and a second electrode (ELT2) on a substrate (SUB), a pixel unit (102) including a light emitting element (LD) on the first electrode (ELT1) and the second electrode (ELT2), a first signal line (120) electrically connected to the first electrode (ELT1), and a second signal line (130) electrically connected to the second electrode (ELT2), wherein first power is configured to be provided to the first electrode (ELT1) from the first signal line (120), wherein second power is configured to be provided to the second electrode (ELT2) from the second signal line (130), wherein at least a portion of the first signal line (120) and at least a portion of the second signal line (130) extend in a first direction (DR1), and wherein at least another portion of the first signal line (120) extends in a second direction (DR2) that is not parallel to the first direction (DR1).

No. of Pages : 71 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062348 A

(19) INDIA

(22) Date of filing of Application :01/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : ELECTRIC VEHICLE

(51) International classification	:G05D0001000000, B60W0050080000, B60W0060000000, B60W0050000000, G05D0001020000	(71)Name of Applicant : 1)SUZUKI MOTOR CORPORATION Address of Applicant :300 Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka 432-8611 Japan
(31) Priority Document No	:2021-194254	(72)Name of Inventor :
(32) Priority Date	:30/11/2021	1)Mitsuru KANEKO
(33) Name of priority country	:Japan	2)Toshiyuki FURUTA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[Problem to be Solved] To provide, in addition to a switch dedicated to emergency stop, additional means that enables an emergency stop in an automatic driving mode of an electric vehicle. [Solution] An electric vehicle 100 includes a joystick 42 and a switch 52 dedicated to emergency stop, and drives in a manual driving mode or an automatic driving mode, the joystick functions as driving control means of the electric vehicle in the manual driving mode, and the joystick functions as emergency stopping means of the electric vehicle other than the switch in the automatic driving mode. [Selected Drawing] Figure 3

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214060919 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : IONIC LIQUID COMPOSITION

(51) International classification	:C25D0003660000, C10M0171000000, B01J0031020000, C10N0020000000, C08B0001000000	(71) Name of Applicant : 1)INFINEUM INTERNATIONAL LIMITED Address of Applicant :P. O. Box 1, Milton Hill, Abingdon, Oxfordshire OX13 6BB, United Kingdom U.K.
(31) Priority Document No	:EP 21205659.2	(72) Name of Inventor :
(32) Priority Date	:29/10/2021	1)IRVING, Matthew David
(33) Name of priority country	:EPO	2)COULTAS, David Robert
(86) International Application No	:NA	3)HOLLINGSWORTH, NATHAN
Filing Date	:NA	4)GREER, ADAM
(87) International Publication No	: NA	5)HARDACRE, CHRISTOPHER
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An ionic liquid composed of nitrogen-free cations and aromatic halogen- and boron-free anions is useful as an additive to prolong the service life of hydrocarbonaceous liquids exposed to nitrogen dioxide contamination, and to provide friction and wear reduction.

No. of Pages : 51 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214061008 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY CELL PACK AND ASSEMBLY METHOD OF BATTERY CELL PACK

(51) International classification	:H01M0050200000, H01M0010040000, H01M0050543000, H01M0010613000, H01M0010480000	(71) Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210531212.7	(72) Name of Inventor :
(32) Priority Date	:16/05/2022	1)ZHAO, DONG
(33) Name of priority country	:China	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery cell pack and an assembly method of the battery cell pack are provided. The battery cell pack includes an end plate (10) and at least one cell (20). The end plate (10) is provided with a limiting protrusion (14). The cell (20) is provided with a recess (22). At least part of the limiting protrusion (14) is located in the recess (22) to position the end plate (10) and the cell (20).

No. of Pages : 29 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214061040 A

(19) INDIA

(22) Date of filing of Application :26/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : AUTOMATED SHUTTLE MATERIALS HANDLING AND STORAGE SYSTEMS AND METHODS OF USING THE SAME

(51) International classification	:B65G0001040000, B65G0001137000, B65G0001060000, G06Q0010080000, B64C0029000000	(71) Name of Applicant : 1)INTELLIGRATED HEADQUARTERS, LLC Address of Applicant :7901 Innovation WayMason, OH 45040, United States of America. U.S.A.
(31) Priority Document No	:17/454735	(72) Name of Inventor :
(32) Priority Date	:12/11/2021	1)Jarl Nicholas SEBASTIAN
(33) Name of priority country	:U.S.A.	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AUTOMATED SHUTTLE MATERIALS HANDLING AND STORAGE SYSTEMS AND METHODS OF USING THE SAME
ABSTRACT Various embodiments are directed to an automated storage and retrieval system and method of operating the same. In various embodiments, an automated storage and retrieval system comprises a plurality of storage aisles, each defined in part by a unidirectional shuttle traffic flow pattern; a plurality of shuttles configured to travel throughout the system to execute materials handling operations; at least one vertical lift; a plurality of inter-aisle shuttle outlet tracks configured to facilitate shuttle traffic flow in at least substantially the same direction, each comprising: a first inter-aisle shuttle outlet track comprising at least one lift interface position to facilitate shuttle traffic flow to at least one vertical lift; and a second inter-aisle shuttle outlet track arranged in an at least substantially parallel configuration relative to the first inter-aisle shuttle outlet track; wherein the inter-aisle shuttle outlet tracks enable shuttle transfer between the first and second inter-aisle shuttle outlet tracks.

No. of Pages : 48 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214061086 A

(19) INDIA

(22) Date of filing of Application :27/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : VEHICLE-MOUNTED SYSTEM

(51) International classification :H04N0005225000,
H04L0012400000,
B60R0016020000,
G10L0021020800,
F23G0005027000

(31) Priority Document No :2021-177904

(32) Priority Date :29/10/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
**1)KABUSHIKI KAISHA TOKAI RIKA DENKI
SEISAKUSHO**
Address of Applicant :260, Toyota 3-chome, Ohguchi-cho,
Niwa-gun, Aichi 480-0195 Japan Japan

(72)Name of Inventor :
**1)Masanori KOSUGI
2)Akito KUMAGAI**

(57) Abstract :

OF THE DISCLOSURE abstract A vehicle-mounted system provided in a vehicle including a tire includes a detector attached to the tire, the detector transmitting a detection signal, and a monitoring unit that determines a position of the tire based on a plurality of detection 5 signals received from the detector. The detector determines a direction of revolution of the tire, and when the detector determines that the direction of revolution of the tire has changed, it switches a frequency of transmission of the detection signal

No. of Pages : 44 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214061093 A

(19) INDIA

(22) Date of filing of Application :27/10/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TIRE POSITION DETERMINATION SYSTEM AND REVOLVING BODY POSITION DETERMINATION SYSTEM

(51) International classification :B60C0023040000,
B60C0011000000,
G01B0005255000,
F01N0003100000,
B60C0019000000

(31) Priority Document No :2021-177600

(32) Priority Date :29/10/2021

(33) Name of priority country :Japan

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

**1)KABUSHIKI KAISHA TOKAI RIKA DENKI
SEISAKUSHO**

Address of Applicant :260, Toyota 3-chome, Ohguchi-cho,
Niwa-gun, Aichi 480-0195 Japan. Japan

(72)Name of Inventor :

1)Masanori KOSUGI

(57) Abstract :

ABSTRACT Tire Position Determination System and Revolving Body Position Determination System 5 A tire position determination system includes a first tire detector, a revolving body detector, and a monitoring unit. The first tire detector is attached to a first tire and detects an acceleration. The revolving body detector is attached to a first revolving body and detects an acceleration. The monitoring unit obtains first correspondence representing relation between a first value and a second value during a 10 first period, obtains second correspondence representing relation between a third value and a fourth value during a second period, compares the first correspondence and the second correspondence with each other, and determines whether or not the first tire revolves in synchronization with the first revolving body.

No. of Pages : 75 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062438 A

(19) INDIA

(22) Date of filing of Application :02/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : A WORKING MACHINE

(51) International classification :E02F0009200000,
E02F0009220000,
E02F0009080000,
E02F0009280000,
E02F0003280000

(31) Priority Document No :2115798.7

(32) Priority Date :03/11/2021

(33) Name of priority country :U.K.

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)J.C. BAMFORD EXCAVATORS LIMITED
Address of Applicant :Lakeside Works, Rocester, Uttoxeter,
Staffordshire, ST14 5JP, United Kingdom U.K.

(72)Name of Inventor :
1)OWSTON, Charles Edward
2)CHAPMAN, James

(57) Abstract :

ABSTRACT A WORKING MACHINE A working machine includes a body, a ground-engaging propulsion structure supporting the body, a drive arrangement configured to provide motive power to the ground engaging propulsion structure, a braking system actuatable to apply a braking force to the ground engaging propulsion structure, a control system, and a sensor assembly configured to determine an output of the drive arrangement and to provide an output to the control system. The control system is configured to apply a first braking force to the ground engaging propulsion structure that is based on the determined output of the drive arrangement.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062489 A

(19) INDIA

(22) Date of filing of Application :02/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY, BATTERY APPARATUS AND BATTERY MANUFACTURING METHOD

(51) International classification	:H01M0010040000, H01M0010052500, H01M0050543000, H01M0010058500, H01M0010480000	(71) Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210432237.1	(72) Name of Inventor :
(32) Priority Date	:22/04/2022	1)GU, LIANGJIE
(33) Name of priority country	:China	2)GUAN, JUNSHAN
(86) International Application No	:NA	3)LIU, JIONG
Filing Date	:NA	4)YAN, TINGLU
(87) International Publication No	: NA	5)ZHANG, YONGJIE
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosure provides a battery, a battery apparatus, and a battery manufacturing method. The battery includes a battery casing (10). A peripheral edge of the battery casing (10) is provided with a flange structure (14), a potential collecting portion (15) is provided on the flange structure (14), and the potential collecting portion (15) extends from the flange structure (14). The flange structure (14) and the potential collecting portion (15) are integrally formed. By arranging the flange structure (14) at the peripheral edge of the battery casing (10) and by arranging the potential collecting portion (15) on the flange structure (14), the potential collecting portion (15) may be configured to be connected to a voltage collection structure.

No. of Pages : 46 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062525 A

(19) INDIA

(22) Date of filing of Application :02/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : TAKE-UP TUBE REPLENISHMENT DEVICE

(51) International classification	:G03G0015080000, B33Y0030000000, G06Q0010080000, H04M0017000000, H04M0015000000	(71)Name of Applicant : 1)TMT Machinery, Inc. Address of Applicant :6th Fl., Osaka Green Bldg., 2-6-26 Kitahama, Chuo-ku, Osaka-shi, Osaka 541-0041, Japan Japan
(31) Priority Document No	:2021-184886	(72)Name of Inventor : 1)Akihito IMANAKA
(32) Priority Date	:12/11/2021	2)Shigeki KITAGAWA
(33) Name of priority country	:Japan	3)Hidekazu CHIKADA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT OF THE DISCLOSURE TAKE-UP TUBE REPLENISHMENT DEVICE An object of the present invention is to effectively 5 replenish, with empty take-up tubes, stockers which are provided in winding units of a false-twist texturing machine. A take-up tube replenishment device 50 is configured to replenish stockers 23 with empty bobbins Bw in a false10 twist texturing machine 1 in which winding units 30 are provided in a base longitudinal direction to form plural stages. Each winding unit 30 includes a winding device 21 and one of the stockers 23. The take-up tube replenishment device 50 includes take-up tube moving paths 51 which are 15 provided to form plural stages corresponding to the winding units 30 provided to form plural stages, which extend along the base longitudinal direction, and in which empty bobbins Bw which are to be used to replenish the stockers 23 are movable in the base longitudinal direction. 20 Each take-up tube replenishment device 51 further includes: a supporting surface 51a which extends along the base longitudinal direction and which is provided for supporting the empty bobbins Bw from below; a replenishment port 61 which is provided at an end portion 25 of each take-up tube moving path 51 in the base 64 longitudinal direction and which is provided for allowing the empty bobbins Bw to be supplied; and guide portions 62 which are provided for guiding, toward the respective stockers 23, the empty bobbins Bw moving in the base longitudinal direction.

No. of Pages : 70 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062592 A

(19) INDIA

(22) Date of filing of Application :02/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : POWER UNIT

(51) International classification	:B60K0005120000, B62D0021150000, B62K0011100000, B64D0041000000, A01D0101000000	(71) Name of Applicant : 1)HONDA MOTOR CO., LTD. Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan
(31) Priority Document No	:2021-190260	(72) Name of Inventor :
(32) Priority Date	:24/11/2021	1)MATSUURA, Toshiki
(33) Name of priority country	:Japan	2)MATSUSHITA, Koichiro
(86) International Application No	:NA	3)FUNAYAMA, Yoshihiro
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A power unit (4) includes: a crankshaft; a crankcase (40) that supports the crankshaft; and a fan (60) that is provided to be rotatable integrally with the crankshaft and suctions external air from outside in an axis direction of the crankshaft. A portion 5 of the crankcase (40) outside the fan (60) when seen from the axis direction forms a cooling air passage (PI, P2) through which wind that is generated by the fan (60) passes.

No. of Pages : 39 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062752 A

(19) INDIA

(22) Date of filing of Application :03/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : BATTERY

(51) International classification	:B65D0071580000, G11C0011407400, H01M0050124000, H01M0010643000, H01M0050116000	(71)Name of Applicant : 1)CALB CO., LTD. Address of Applicant :NO. 1 JIANGDONG ROAD, JINTAN DISTRICT, CHANGZHOU CITY, JIANGSU PROVINCE, CHINA China
(31) Priority Document No	:202210751880.0	(72)Name of Inventor :
(32) Priority Date	:28/06/2022	1)XU, JIULING
(33) Name of priority country	:China	2)ZHANG, YONGJIE
(86) International Application No	:NA	3)LIU, RUIJIAN
Filing Date	:NA	4)ZHAO, HAO
(87) International Publication No	: NA	5)ZHANG, LULU
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery includes a battery casing (10), a first cell (20), and a second cell (30). A partition structure is arranged in the battery casing (10). The first cell (20) is arranged in the battery casing (10), and at least a part of the first cell (20) is located on a first side of the partition structure. The second cell (30) is arranged in the battery casing (10), and at least a part of the second cell (30) is located on a second side of the partition structure, and the first side and the second side are oppositely arranged, such that the first cell (20) and the second cell (30) are arranged in a first direction (A). The partition structure is formed with a communication channel (11) penetrating the first side and the second side.

No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202214062783 A

(19) INDIA

(22) Date of filing of Application :03/11/2022

(43) Publication Date : 16/02/2024

(54) Title of the invention : SLIDING ELECTRONIC DEVICES WITH TRANSLATING FLEXIBLE DISPLAYS AND ELECTROCHEMICAL CELL ROLLERS

(51) International classification	:G06F0001160000, G02B0005200000, H01B0001240000, H01L0021683000, G02F0001151600	(71) Name of Applicant : 1)MOTOROLA MOBILITY LLC Address of Applicant :222 WEST MERCHANDISE MART PLAZA SUITE 1800 CHICAGO ILLINOIS UNITED STATES OF AMERICA 60654 U.S.A.
(31) Priority Document No	:17/520,428	(72) Name of Inventor :
(32) Priority Date	:05/11/2021	1)Nigil George Valikodath
(33) Name of priority country	:U.S.A.	2)George B Standish
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT An electronic device includes a flexible display. A device housing provides a translation surface for the flexible display. A rotor positioned within a curvilinear section of the flexible display rotates with translation of the flexible display across the translation surface. The rotor can be a rechargeable electrochemical cell, can be a rechargeable electrochemical cell situated within a sheath, or can be positioned within a housing defining an outer surface of the rotor to save space within the electronic device.

No. of Pages : 67 No. of Claims : 20

CONTINUED TO PART- 2