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(12) PATENT APPLICATION PUBLICATION (21) Application No.201911044806 A  
 (19) INDIA  
 (22) Date of filing of Application :05/11/2019 (43) Publication Date : 26/05/2023

(54) Title of the invention : MEASUREMENT OF CUSTOMER'S RESPONSE TO DIFFERENT ASPECTS OF THE RETAIL STORE USING EMOTION API

(51) International classification  (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:A61K0009000000, G06Q0030020000, A61K0009160000, A61K0039102000, G06F0030200000 :NA :NA :NA :NA :NA : NA :NA :NA :NA :NA :NA	(71) <b>Name of Applicant :</b> <b>1)ISS SOFTWARE DEVELOPMENT CENTRE PVT.LTD</b> Address of Applicant :DLF CYBER GREENS, 2ND FLOOR, TOWER C, U-BLOCK DLF PHASE III GURGOAN HARYANA-122002, INDIA Haryana India (72) <b>Name of Inventor :</b> <b>1)SWETANK SHEKHAR</b>
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(57) Abstract :  
 The invention provides a system and method for measurement of person's response to different aspects of the retail store using emotion API. The system comprises such as without limitation a control unit controlling multiple cameras located around the store, processing unit with communication interface to communicate with the store/sales representative's hand held device.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013293 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SOLAR-POWERED BICYCLE WHEEL

(51) International classification :H02S0040380000,  
F24S0030000000,  
F03G0006000000,  
H02S0010400000,  
F21S0009030000

(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)Akhil Singhal**

Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda  
Punjab India

**2)Henu Singhal**

(72)Name of Inventor :

**1)Akhil Singhal**

(57) Abstract :

Disclosed is a solar-powered bicycle wheel with a solar energy absorption module and a hub motor along with the main bicycle body with a bicycle frame that is connected with an assembly of removable wheels integrated with solar panels at both ends. The solar panels of the wheels are set with a solar board for the absorption of solar energy from the Sun, a solar board display to indicate the solar energy absorption level to the user, and an arrangement of batteries set with battery holders for the conversion of the absorbed solar energy into electrical energy. The solar panels are in conjunction with hub motor units positioned at the wheels with motor holders. The hub motor facilitates the conversion of the electrical energy obtained from the solar energy into mechanical movement for enabling the rider to drive the eco-friendly and reusable solar-powered bicycle.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013294 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MOTORCYCLE HANDLEBAR SUSPENSION SYSTEM

(51) International classification	:B60G0021045000, F04B0035040000, A63B0071060000, B62K0025160000, B62K0025000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Akhil Singhal</b>
(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 :

The present invention relates to a motorcycle with a handle suspension that provides for a compact and lightweight horizontal suspension mechanism between the handle and the front forks. The handle suspension aims to aid and complement the front and rear suspensions as the engine traverses vibrations to the handle despite traditional suspension systems being in place. The handle suspension system comprises of spring mechanism encased, attached between the front forks and the handle. The vibrations that the engine traverses to the handle when riding or when at a standstill are resolved linearly by the handle suspension system. Furthermore, the handle suspension adds certain firmness to the handle that provides improved handling of the motorcycle.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013295 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DUAL PLATE FRAME BICYCLE

(51) International classification	:A63B0069160000, B62K0003000000, B62K0009000000, B62K0003120000, B62J0011000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda Punjab India <b>2)Henu Singhal</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Akhil Singhal</b>
(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 :

Disclosed is a dual plate frame bicycle embodiment supported by a framework of plates. The dual plate frame bicycle embodiment comprises a main bicycle body that is composed of a structure of plates positioned horizontally and transversely and supported with an assembly of rivets. There is provided with a steering handle and saddle for the rider to sit on while riding the bicycle. The framework of plates enables smooth riding across rough surfaces by preventing accidents at sharp bends through the overturning of the bicycle embodiment. There is also provided at least two wheels held by the tyre plates, the rear wheel is linked to the sprocket wheel with a bicycle chain in connection with the pedal mechanism and the front wheel is in conjunction with the side plates at the front end. The dual plate frame bicycle embodiment enables the rider to propel the bicycle and accelerate at sharp turns as well.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013297 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SOLAR-POWERED HUB-LESS BICYCLE WHEEL

(51) International classification :B62M0006650000,  
B60L0050600000,  
B60L0050200000,  
B62M0006900000,  
B60K0007000000

(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)Akhil Singhal**

Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda  
Punjab India

**2)Henu Singhal**

(72)Name of Inventor :

**1)Akhil Singhal**

(57) Abstract :

Disclosed is a solar-powered hub-less bicycle wheel supported by a solar energy absorption module and a motor hub. The apparatus further comprises the main bicycle body with a bicycle frame that supports the assembly of handle-bars and the front hub-less wheel at the front end and the bicycle saddle in conjunction with the rear hub-less wheel at the rear end of the bicycle frame. The front and the rear hub-less wheels are annexed to a solar energy absorption module that absorbs solar energy for conversion into electrical energy by an arrangement of battery sources and then into mechanical movement by the motor hub set at the front wheel and at the rear wheel where the motor hub is annexed with a rotor linked with the pedal apparatus that enables the rotation of the wheels of the solar-powered hub-less bicycle.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013298 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANTI-INTRUSION BARRICADE

(51) International classification	:A63B0069000000, E02D0029020000, E04H0017000000, E04B0002020000, E05C0019000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda 151001 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Akhil Singhal</b>
(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 :

Disclosed is a modular anti-intrusion barricade wall system set with a roller pin at the top and a support structure at the rear side of the wall block. The modular anti-intrusion barricade wall system comprises a primary wall body system that is integrated with a roller pin at the top and a supportive framework at the rear side that enables the positioning of the modular anti-intrusion barricade wall system in any area. There is provided with a roller pin that is enabled by the ball bearings of balls held at the ends of the wall block structure by ball bearing holders to rotate upon being exposed to contact imposed by the intruder. The rotation of the roller pin is what prevents an intruder from climbing the wall block structure and crossing over to the area being protected by the modular anti-intrusion barricade wall system.

No. of Pages : 21 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013299 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BICYCLE HANDLEBAR SUSPENSION SYSTEM

(51) International classification	:B60N0002500000, B60N0002520000, F21S0002000000, B62K0021120000, B62J0011000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda Punjab India <b>2)Henu Singhal</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Akhil Singhal</b>
(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 bicycle with a handlebar suspension system that provides for a compact and lightweight horizontal suspension mechanism between the handlebar and the tube frame. The Handlebar suspension assembly includes a spring system encased between a plurality of metallic plates which are bolted on the handlebar at one end and on the frame tube at the other end. The plates may be unscrewed when needed and provide easy access to the spring mechanism for easy repair or maintenance. Furthermore, any shock or vibration that is experienced is resolved linearly by the handlebar suspension system in a horizontal manner which is the same as that of the grip of the user. The handlebar suspension system bicycle, therefore, paves way for a seamless ride experience whilst offering no cutbacks in performance.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013300 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PELTIER MODULE WATER TANK COOLER

(51) International classification	:F25B0021020000, F25B0021040000, F25D0031000000, H01L0023380000, H01L0035280000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Akhil Singhal</b>
(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 :

Disclosed is a water tank cooling apparatus that uses a Peltier module to achieve cooling. All the electrical components of the cooling apparatus are powered by a photovoltaic power source. The apparatus comprises a cooling fan and a cooling vent that brings in air from the external environment. Furthermore, the apparatus utilizes a water pump and an inlet pipe to traverse the water from the water tank to the Peltier module where cooling is achieved. Upon the application of current through the junctions of the Peltier module, the two sides get alternatively heated on one side and cooled on the other. The cooling junction of the Peltier module achieves cooling of the water from the cooling junction and the heat formed in this process is traversed to the hot junction from where it is dissipated at a quick rate by the heat sink so that overheating of the hot junction does not occur. This cycle is sustained and this, in turn, helps achieve active cooling within the water tank system.

No. of Pages : 22 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013301 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : REMOVABLE CARGO CONTAINER

(51) International classification	:B60P0007080000, B65D0088120000, B65D00900000000, B65D0090180000, B65G0063000000	(71) <b>Name of Applicant :</b> <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda 151001, Punjab Punjab India <b>2)Henu Singhal</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Akhil Singhal</b>
(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 portable freight container that can be mounted on the bed of cargo vehicles. The present invention comprises a housing with solid walls with a loading opening arranged at the rear end of the container. The container consists of a set of wheels attached at the bottom to facilitate the maneuvering in the loading area, without requiring high-capacity cranes or other special container-handling facilities. Further, the container comprises locking means the housing onto the cargo bed. The cargo bed may be accordingly modified to comprise indent tracks for the containers to easily slide and lock-in. A winch system may be utilized along with the present invention to minimize the loading-unloading time. The present invention is intended to improve the work process of the freight industry and can significantly reduce the logistics costs along with working hours associated with the movement of conventional cargo vehicles

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013333 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : RESORBABLE METAL IMPLANTS A COMBO OF ZINC ALLOY AND IRON ALLOY & ITS PROCESSING THEREOF

(51) International classification	:A61L0031140000, A61L0027580000, A61L0031020000, C22C0018000000, A61B0017000000	(71)Name of Applicant : <b>1)GHANSHYAM DAS AGRAWAL</b> Address of Applicant :Rasoolpur Jahanganj, Shahjahanpur – 242 001, UP, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)GHANSHYAM DAS AGRAWAL</b>
(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 :

The present invention discloses a resorbable metal implants, a combo of Zinc alloy plates, pins and rods made of iron alloy wherein the zinc alloy comprises of 98-99% Zinc and 1-2% Magnesium and iron alloy screw comprises of 85-88% of Iron and 12-14% of manganese. It also discloses a process of preparation of resorbable metal implants, a combo of Zinc alloy plates, pins and rods made of iron alloy

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013356 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DESALINATION SYSTEM FOR WATER TREATMENT

(51) International classification :C11C0003040000,  
C02F0103080000,  
C02F0001140000,  
C02F0001040000,  
B01D0061140000

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

Address of Applicant :Grand Trunk Road, Barnala- Amritsar  
Bypass Road, Jalandhar, Punjab, Punjab India

(72)Name of Inventor :

**1)Dr. Mahesh Kumar Sah  
2)Mr. Sunny Mukherjee**

(57) Abstract :

ABSTRACT DESALINATION SYSTEM FOR WATER TREATMENT The present invention relates to biotechnology field; specifically relate to design a portable, partially submersible distillation unit designed for purification of saline water in the coastal areas- which can be used for direct conversion of sea water to potable water free of impurities and fit for human consumption.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013357 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PHONE HOLDER WITH WEARABLE MEANS

(51) International classification	:H04M0001040000, A45F0005000000, B60R0011020000, A63B0021000000, H04B0001382700	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Shubham Sharma</b> <b>2)Sahil Bisht</b>
(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 PHONE HOLDER WITH WEARABLE MEANS The present invention relates to a phone holder with wearable means. In the present invention, a smart phone holder can be wear like band, strap, and the like via seat belt button, joint or anything to wear this product (that is stretchable to serve universal demographics) especially on arms along with on wrist, forearms, biceps, triceps, forehead/head even on legs (thighs, knees, calves, etc.) & torso, thus; a holistic innovative product. Smart Phone Holder can be use even while standing, walking, and running, in supine position, on body position or anywhere according to the user needs. Accompanied Drawing [FIG. 1]

No. of Pages : 11 No. of Claims : 4

(54) Title of the invention : ANTIMICROBIAL, ANTI-FUNGAL AND ANTICANCER ACTIVITY OF N-(5-(N-((Z)-2-((Z)-((5-ACETAMIDO-1,3,4-THIADIAZOL-2-YL)SULFONYL)IMINO)METHYL)-6-METHOXYPHENOXY)DIBUTYLSTANNYL)OXY)-3-METHOXYBENZYLIDENE)SULFAMOYL)-1,3,4-THIADIAZOL-2-YL)ACETAMIDE AND METHOD THEREOF

(51) International classification	:C07D0285135000, G01R0033460000, G01N0021350000, H05B0006640000, C07F0015020000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Anita Gupta</b>
(32) Priority Date	:NA	<b>2)Dr. Harminder Kaur</b>
(33) Name of priority country	:NA	<b>3)Mr. Rohit Babu Aniyery</b>
(86) International Application No	:NA	<b>4)Ankita Pathak</b>
Filing Date	:NA	
(87) 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 Antimicrobial, anti-fungal and anticancer activity of N-(5-(N-((Z)-2-((Z)-((5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl)imino)methyl)-6-methoxyphenoxy)dibutylstannyl)oxy)-3-methoxybenzylidene)sulfamoyl)-1,3,4-thiadiazol-2-yl)acetamide and method thereof The present invention relates to Antimicrobial, anti-fungal and anticancer activity of N-(5-(N-((Z)-2-((Z)-((5-acetamido-1,3,4-thiadiazol-2-yl)sulfonyl)imino)methyl)-6-methoxyphenoxy)dibutylstannyl)oxy)-3-methoxybenzylidene)sulfamoyl)-1,3,4-thiadiazol-2-yl)acetamide and its preparation method thereof. The present invention relates to a novel complex, which is synthesized by using two methods: Conventional method of refluxing and the microwave method, where the reaction mixture was exposed to microwave radiations in a domestic microwave oven. Microwave method is observed to be more efficient and rapid than conventional method because the amount of yield obtained is greater in case of former and also the reaction time is quite less. The product formed is collected by filtration and dried in vacuum. The synthesized complex was characterized using spectral analysis (UV-Vis absorption, FTIR technology, <sup>1</sup>H NMR, <sup>13</sup>C NMR and <sup>119</sup>Sn NMR studies). The data obtained from <sup>119</sup>Sn NMR spectra confirmed the proposed geometries in complexes where the ligands are found to coordinate to tin metal through (O) and (O,N) donor sites. The novel complex has shown good antibacterial, antifungal and anticancer in in-silico docking studies.

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011017766 A

(19) INDIA

(22) Date of filing of Application :25/04/2020

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM AND A METHOD OF MONITORING AUTOMATED MANUFACTURING SYSTEM

(51) International classification	:G06Q0010060000, G11B0027034000, G05B0019406500, B29D0011000000, B29C0070380000	(71) <b>Name of Applicant :</b> <b>1)Gaurav Sarup</b> Address of Applicant :C-86, Phase V, Focal Point, Ludhiana- 141010, Punjab, India Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gaurav Sarup</b>
(33) Name of priority country	:NA	<b>2)Prashant Sarup</b>
(86) International Application No	:NA	<b>3)Siddhant Sarup</b>
Filing Date	:NA	
(87) 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 :

Embodiments of the present invention provide a system and a method that generates real time data related to stoppages in operations of an automated manufacturing system, analyzes the real time data for providing contextual information related to the stoppages, predicting one or more necessary actions to be taken for eliminating or reducing duration of the stoppages for improving the efficiency of the automated manufacturing system. The system provides such contextual information about the stoppages in the automated manufacturing system in real time and locally and remotely to any human resource.

No. of Pages : 36 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013789 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MEDICAL EQUIPMENT WARDROBE STERILIZATION

(51) International classification	:A61L0002100000, A61L0009200000, A61L0002240000, A61L0009160000, A01K0061000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda 151001 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Akhil Singhal</b>
(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 :

Disclosed is a sterilization system for storage, particularly to a wardrobe combining ultraviolet sterilization along with heat sterilization. The UV sterilization system comprises distantly spaced UV light sources attached together in the frame by means of a wire clip. The present system consists of a fan attached to a heating coil to dissipate hot air. The disclosed invention seeks to provide a cost-effective, less complex, and frequently usable heat and ultraviolet sterilization to the fabrics and personal protective equipment. The present invention may be modified to be attached to existing wardrobes, leading to a further economical benefit

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013791 A

(19) INDIA

(22) Date of filing of Application :28/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MODULAR STEERING BICYCLE

(51) International classification	:B62K0021160000, B62K0021020000, B62K0021180000, F02B0075260000, B62K0015000000	(71)Name of Applicant : <b>1)Akhil Singhal</b> Address of Applicant :5319, St No 6, Malviya Nagar, Bathinda 151001 Punjab India <b>2)Henu Singhal</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Akhil Singhal</b>
(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 :

Disclosed is a modular steering system for a bicycle wherein in the steering column, the tube attached to the handlebar consists of a gear in a bevel connection with the gear present on a central shaft at an acute angle. The central shaft is thus connected to the handlebar tube at the top by means of a bevel gear assembly. The central shaft is also connected to the fork of the bicycle by means of a similar bevel gear assembly at the bottom such that the angle between the central shaft and cycle fork is an acute angle. As the handlebar rotates, the entire set up of the bevel gear assembly rotates, providing an easy turn for the bicycle.

No. of Pages : 21 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014422 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A ROBUST AND HARD-WEARING CAMOUFLAGE MEANS

(51) International classification	:F41H0003020000, F41H0003000000, A61K0047320000, C09D0005300000, B60C0013000000	(71) <b>Name of Applicant :</b> <b>1)Chairman, Defence Research &amp; Development Organisation</b> Address of Applicant :Ministry of Defence, Govt of India, Room No 348, B - Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110 011, India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Patade Vikas Yadav</b>
(33) Name of priority country	:NA	<b>2)Atul Grover</b>
(86) International Application No	:NA	<b>3)Nirbhay Singh</b>
Filing Date	:NA	<b>4)Abhinav Singh</b>
(87) International Publication No	: NA	<b>5)Madhu Bala</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A ROBUST AND HARD-WEARING CAMOUFLAGE MEANS 5 The present invention relates to a camouflage means comprising a non-living layer, to which a living layer is attached. A complete visual obstruction to optical surveillance is thus created. The appearance of visual layer is such that it blends with the surroundings

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014457 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PORTABLE LIGHT FIXTURE

(51) International classification :F21Y0115100000,  
F21V0023040000,  
F21V0007000000,  
F21V0033000000,  
B25B0011000000

(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 :  
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MADHYA MARG, CHANDIGARH – 160009, INDIA  
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**1)AMANDEEP SINGH  
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5)SWATI SINGH  
6)AMANPREET SANDHU  
7)GURJINDER KAUR  
8)MEENU GARG**

(57) Abstract :

Title: PORTABLE LIGHT FIXTURE ABSTRACT A portable light fixture (100), the light fixture (100) comprising: a body (102) adapted to confine a light bulb (104) such that the light bulb (104) is configured to be illuminated by providing a power supply; vacuum cups (106a-106b) attached to the body (102) such that a first vacuum cup (106a) attached to a front side of the body (102) and a second vacuum cup (106b) attached to a rear side of the body (102), wherein the vacuum cups (106a-106b) are adapted to be mounted on a surface; a power switch (108) configured on the rear side of the body (102), wherein the power switch (108) is actuated to illuminate the light bulb (104). Claims: 10, Figures: 6 Figure 1A is selected.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111012965 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IN SITU ENRICHMENT OF MOSQUITO REPELLENT PARA-MENTHANE-3,8-DIOLS IN CITRONELLA (CYMBOPOGON WINTERIANUS) ESSENTIAL OIL

(51) International classification	:A01N0065440000, A01N0065000000, A61Q0017020000, A01N0049000000, A01N0031060000	(71) <b>Name of Applicant :</b> <b>1)CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB)</b> Address of Applicant :Center of Innovative and Applied Bioprocessing SECTOR-81 (KNOWLEDGE CITY), P.O. MANAULI, SAS NAGAR, MOHALI 140306, INDIA Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHUWAN BHUSHAN MISHRA</b>
(33) Name of priority country	:NA	<b>2)MANGAT SINGH</b>
(86) International Application No	:NA	<b>3)NISHANT PANDEY</b>
Filing Date	:NA	<b>4)UMESH SINGH</b>
(87) 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 PROCESS FOR PREPARATION OF PARA-MENTHANE-3,8-DIOLS ENRICHED CITRONELLA OIL The present disclosure provides a process for preparation of para-menthane-3,8-diols enriched citronella oil, said process comprising the steps of (a) adding an oil phase comprising citronella oil to an aqueous phase comprising an organic acid to obtain a mixture; and (b) heating the mixture at a temperature in the range of 55 to 85°C to obtain para-menthane-3,8-diols enriched citronella oil. The process further comprises quenching to separate the organic phase from the aqueous phase and the organic phase is further dried over a drying agent. The present disclosure also provides an insect repellent composition comprising: (a) para-menthane-3,8-diols enriched citronella oil and additives.

No. of Pages : 22 No. of Claims : 16

(54) Title of the invention : SOL GEL SYNTHESIZED CERIUM AND NICKEL SUBSTITUTED MAGNESIUM NANOFERRITES WITH ENHANCED MAGNETIC PROPERTY

(51) International classification	:B01J003500000, C02F0001300000, C02F0101300000, G01N0021650000, B01J0023000000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :VILLAGE BHAJOL, P.O. SULTANPUR, SOLAN-173229(HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Rohit Jasrotia</b>
(33) Name of priority country	:NA	<b>2)Ankit Verma</b>
(86) International Application No	:NA	<b>3)Virender Pratap Singh</b>
Filing Date	:NA	<b>4)Rajesh Kumar</b>
(87) 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 :

SOL GEL SYNTHESIZED CERIUM AND NICKEL SUBSTITUTED MAGNESIUM NANOFERRITES WITH ENHANCED MAGNETIC PROPERTY AND PHOTOCATALYTIC DEGRADATION OF CRYSTAL VIOLET AND RHODAMINE B POLLUTANTS FOR ELECTROMAGNETS AND WASTE WATER TREATMENT APPLICATIONS Sol-gel synthesized Ce<sup>3+</sup> and Ni<sup>2+</sup> ions doped Mg nanoferrites acts as a magnificent catalyst for the photocatalytic degradation of rhodamine B and crystal violet organic dyes under visible natural sunlight. The synthesized nanoferrites were characterized with the usage of analytical and characterization techniques. XRD analysis shows the formation of single-phase spinel cubic structure with an average crystallite size of 43-57 nm and all these results were confirmed with the help of morphological and optical investigation has done by FESEM and FTIR. From the M-H curves analysis, the saturation magnetization showing anomalous behavior along with small coercivity in the range of few hundreds in respect with the Ce<sup>3+</sup>/Ni<sup>2+</sup> concentration make it suitable for the electromagnet applications. The Raman spectra of synthesized nanoferrites shows the presence of four Raman active vibrational modes (E<sub>g</sub> + 2T<sub>2g</sub> + A<sub>1g</sub>) providing suitable information of occupancy of Mg<sup>2+</sup>, Ce<sup>3+</sup>, Ni<sup>2+</sup> and Fe<sup>3+</sup> ions at the interstitial sites of the crystal lattice. Moreover, with the increasing substitution of Ce<sup>3+</sup> and Ni<sup>2+</sup> ions in the synthesized specimens, the Mg nanoferrites shows an enhancement in the photodegradation of crystal violet and rhodamine B organic dyes using natural sunlight source. The experimental results showed that the prepared doped MgFe<sub>2</sub>O<sub>4</sub> nanoferrites have a high tendency to photodegrade the RhB (Rhodamine B) and crystal violet (CV) dyes from the aqueous solution. The pseudo first order equation reflects the best photocatalytic process kinetics and also, studied the feasibility of RhB (Rhodamine B) and crystal violet (CV) dyes adsorption on the doped and undoped MgFe<sub>2</sub>O<sub>4</sub> nanoferrites. The results show a support for adsorption by the spontaneous photodegradation process. Therefore, it was concluded from the given analysis that the synthesized nanoferrites shows an excellent photocatalytic activity under natural sunlight which make it considered as promising candidate suitable for the photocatalytic degradation of organic dyes in various applications. In addition to this, antimicrobial activities were analyzed against Staphylococcus aureus, Escherichia coli. The antimicrobial activity of prepared nanoferrites was observed to be effective against Staphylococcus aureus.

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014938 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SOLVENT-FREE AND ECO-FRIENDLY PROCESS FOR THE NICLOSAMIDE

(51) International classification	:A61K0031167000, A61K0031609000, B01J0031020000, A61K0047100000, A01N0037400000	(71)Name of Applicant : <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860)</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg, New Delhi, 110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Damodara Reddy</b>
(33) Name of priority country	:NA	<b>2)Jhajan Lal</b>
(86) International Application No	:NA	<b>3)Shabina Bee Ansari</b>
Filing Date	:NA	<b>4)Rachana Meena</b>
(87) 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 PROCESS FOR THE PREPARATION OF ANTHELMINTIC DRUG NICLOSAMIDE AND USES THEREOF**  
The present invention relates to a niclosamide synthetic indigenous process in solvent-free condition. To a pulverized 5-chlorosalicylic acid and 2-chloro-4-nitroaniline, adding dehydrating agents (P2O5/PCl3/PCl5), pulverizing, and reacting for 2-3 hours under a melting condition (110-130oC), obtained a niclosamide raw medicine with 85-94% purity. Washing with hot water and ethanol furnished the desired niclosamide with 99% purity. This procedure was further utilized to synthesis of otilonium bromide precursors 6 and 8.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014939 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A LPG BASED REDUCTION PROCESS FOR RECOVERY OF MANGANESE FROM PYROLUSITE ORE

(51) International classification	:C22B0001020000, C22B0047000000, C22B0003080000, C10L0003120000, C22B0034220000	(71)Name of Applicant : <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860)</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg, New Delhi, 110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Shivendra Sinha</b>
(33) Name of priority country	:NA	<b>2)Devabrata Mishra</b>
(86) International Application No	:NA	<b>3)Saurabh Shekhar</b>
Filing Date	:NA	<b>4)Sanjay Agarwal</b>
(87) International Publication No	: NA	<b>5)Archana Agrawal</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Kamala Kanta Sahu</b>
Filing Date	:NA	<b>7)P V V Patnaik</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A LPG BASED REDUCTION PROCESS FOR RECOVERY OF MANGANESE FROM PYROLUSITE ORE The present invention involves a Liquefied Petroleum Gas (LPG) based reduction roasting process followed by dilute sulphuric acid leaching for recovery of manganese. Subsequently, the leach solution obtained is purified to obtain the solution desirable for EMD production. This developed process is simple, cheaper, easily available reductant with low energy consumption and high heat transfer efficiency.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014941 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS FOR THE FABRICATION OF ZNO-GRAPHENE BASED FLEXIBLE STRAIN AND PRESSURE SENSOR

(51) International classification	:G01L0001180000, G01L0001200000, A61B0005000000, G01L0001240000, B82Y0015000000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mousumi Majumder</b>
(33) Name of priority country	:NA	<b>2)Swati Samanta</b>
(86) International Application No	:NA	<b>3)Mousumi Baral Narjinary</b>
Filing Date	:NA	
(87) 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 PROCESS FOR THE FABRICATION OF ZnO-GRAPHENE BASED FLEXIBLE STRAIN AND PRESSURE SENSOR The present invention provides a process for the fabrication of a flexible strain and pressure sensor using a synergistic composition of ZnO nanoparticle and graphene nanoplatelets. The substrate used is PDMS, a polymer that imparts the desired properties of flexibility and durability to the sensor. The invention also discloses a simple and facile process of sensor fabrication, wherein the sensing element is embedded in the substrate material, and thereby prevents any deformation or peeling even after repeated stretch/ release cycles. The reported flexible sensors can replace the conventional stiff sensors due to their ability to be contoured on curved surfaces, such as body parts. These sensors can find applications in wearable electronics and can have myriad of uses in healthcare monitoring, human-machine interface, electronic skin on prosthetics, and so on.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014942 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS FOR PREPARATION OF AMMONIUM NITRATE FUEL OIL EXPLOSIVES COMPOSITION BY RECYCLING WASTE LUBRICANT OIL

(51) International classification	:C06B0031280000, C06B0047140000, C06B0023000000, B60L0050600000, C10M0175060000	(71)Name of Applicant : <b>1)Council of Scientific &amp; Industrial Research</b> Address of Applicant :Anusandhan Bhawan, 2-Rafi Marg New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)FIROJ ALI</b>
(33) Name of priority country	:NA	<b>2)MURARI PRASAD ROY</b>
(86) International Application No	:NA	<b>3)BRAJ MOHAN PAT PINGUA</b>
Filing Date	:NA	<b>4)PRADEEP KUMAR SINGH</b>
(87) 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 process for preparation of ammonium nitrate fuel oil explosives composition by recycling waste lubricant oil The invention discloses a new method of recycling environmentally hazards waste lubricant oil in to a useful commercial low cost blasting agent and fuel phase compositions for ANFO blasting agent using lubricant oil. Disposal of used Lubricant oil in eco system is a serious environmental threat. Herein we discloses a new and easy method of recycling the use of lubricant oil as partial replacement of diesel oil of ammonium nitrate fuel oil (ANFO) with minimal emission of toxic fumes during detonation process.

No. of Pages : 17 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014943 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS FOR THE PHOTOCATALYTIC ALLYLIC OXIDATION OF OLEFINS USING CARBON DIOXIDE

(51) International classification	:B01J0031180000, B01J0035000000, C07D0493040000, C07C0045280000, C07D0301140000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> Address of Applicant :Anusandhan Bhawan, 2- Rafi Marg New Delhi-110001 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Suman Lata Jain</b>
(33) Name of priority country	:NA	<b>2)Sandhya Saini</b>
(86) International Application No	:NA	<b>3)Shafuir Rehman Khan</b>
Filing Date	:NA	<b>4)Praveen Kumar Khatri</b>
(87) International Publication No	: NA	<b>5)Anjan Ray</b>
(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 novel method for photocatalytic oxidation of allylic C-H bonds present in alkenes containing at least three carbon atoms. In this newly disclosed method, such alkenes, when reacted with carbon dioxide (CO<sub>2</sub>) in an organic solvent containing a catalyst comprising of a supported molecular complex of transition metal ions under conditions of ambient temperature and pressure using a readily available household LED lamp, yield oxygenated products. The developed method represents a unique way to use CO<sub>2</sub> as an oxygen transfer agent to unsaturated organic compounds along with the formation of CO as a co-product using light as an energy source.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014944 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A TURBINE FOR IN-SITU PICO HYDROPOWER GENERATION FROM TREATED DRAIN WASTEWATER

(51) International classification	:F03B0017060000, F03B0007000000, F03B0013080000, C02F0001280000, E02B0009000000	(71)Name of Applicant : <b>1)Council of Scientific and Industrial Research</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg New Delhi Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)RITESH VIJAY</b>
(33) Name of priority country	:NA	<b>2)RAKESH KUMAR</b>
(86) International Application No	:NA	<b>3)SAISAURABH ASORIA</b>
Filing Date	:NA	<b>4)AMIT KUMAR</b>
(87) 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 TURBINE FOR IN-SITU PICO HYDROPOWER GENERATION FROM TREATED DRAIN WASTEWATER In the present invention, a turbine is developed for in-situ pico hydropower generation from treated drain wastewater. The turbine has been designed in such a manner that it utilizes the maximum kinetic energy of the water flow. The turbine is customized with waste material of polyvinyl chloride / stainless steel due to its rigidity and flexibility to give the desired shape, durable in sewage/wastewater, and won't corrode with treated sewage. The angle of curvature and shape of turbine blades is designed in such a way that tangential velocity of flow strikes the maximum surface area of blades enabling the rotation speed than the existing blade design. To avoid the complicated pipe system and construction work for installation of in-situ pico hydropower system, the turbine of the present invention is designed in such a way that it can directly work under the fall of treated sewage from the drain without the construction of conventional pipe/nozzle-jet system to run the water wheel of the turbine. This turbine utilizes the full width and shape of the treated flow fall for the maximum efficiency of the turbine. The mounted turbine can move vertically and horizontally to catch the maximum flow area of the treated water fall. Further, the developed system is portable and can be installed on any drain flowing with wastewater for the generation of electricity for various applications.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014748 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR PROVIDING EMPLOYMENT TO UNORGANIZED SECTOR AND RELATED INTERFACES

(51) International classification	:G06Q0010100000, G06Q0050200000, A61B0005049600, C12R0001010000, A61B0005048800	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125,NOIDA,UTTAR PRADESH,INDIA,201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ACHYUT SHANKAR</b>
(33) Name of priority country	:NA	<b>2)Pavika Sharma</b>
(86) International Application No	:NA	<b>3)Ayush Kumar Bharadwaj</b>
Filing Date	:NA	<b>4)Sahil</b>
(87) International Publication No	: NA	<b>5)Kaushlendra Pratap Singh</b>
(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 FOR PROVIDING EMPLOYMENT TO UNORGANIZED SECTOR AND RELATED INTERFACES**  
The present invention relates to a system for providing employment to unorganized sector and related interfaces. The present invention discloses a system, which includes a an online data repository to store the data of a user / job seeker in an unorganized sector; a processing unit connected with a user device to process the data and provides the relevant name of desired user / job seeker in the online data repository; an interface provided with the user device having a various tabs to show output and provide input to the system. Accompanied Drawing [FIG. 1] Dated this 27th day of March, 2020 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014750 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BIOGENIC GOLD-SILVER BIMETALLIC NANOPARTICLES AS POTENTIAL ANTI LEISHMANIAL AGENTS, DRUG CARRIERS AGAINST WILD AND DRUG RESISTANT LEISHMANIA DOANAVANI

(51) International classification	:A61K0036530000, A61K0036580000, G01N0033569000, A61P0035000000, B01J0037160000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :Amity Education Valley Gurugram, Manesar, Panchgaon, Haryana -122413 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Suresh Kumar Kalangi</b>
(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 BIOGENIC GOLD-SILVER BIMETALLIC NANOPARTICLE AS ANTI LEISHMANIAL AGENT AGAINST LEISHMANIA DOANAVANI AND METHOD THEREOF The present invention generally relates to a biogenic gold-silver bimetallic nanoparticles as potential anti leishmanial agents, drug carriers against wild and drug resistant leishmania doanavani. With recent advancements in nanoscience to achieve cost effective, biocompatible nanoparticles in one step synthesis, by using medicinal plant extracts as reducing agents, Nano medicine offers a vast range of solutions to ongoing antimicrobial resistance. Owing to the usage of antimicrobial, resistance reversal properties of medicinal plant and nano particles properties, the present invention provides synthesis, characterization and evaluation of Au-Ag bimetallic nanoparticles (BNPs) reduced with Azadirachta indica and Ocimum sanctum leaf extract as potential anti-leishmanial agents, drug carriers and their implications in combating the induced Miltefosine drug resistance in L. doanavani Dd8 strain. Accompanied Drawing [FIG. 1] Dated this 28th day of March, 2022 Signature: Name: R. Adm. R.C. Kochhar (Retd.) Name: R. Adm. R.C. Kochhar (Retd.) Applicant Name: Amity University

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015377 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF VORAPAXAR FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000	(71)Name of Applicant : <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Ms Divya Gupta</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of an S5245 Faropenem daloxatedrug, the method comprising:developing pharmacophore models to extract features from the S5245 Raltegravirpotassiumdrug;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the S5245 Raltegravir potassiumdrugin order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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

(54) Title of the invention : WRISTWATCH

(51) International classification :H04W0004900000,  
G08B0025000000,  
G08B0025010000,  
G08B0027000000,  
H04H0020590000

(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)CHITKARA INNOVATION INCUBATOR FOUNDATION**Address of Applicant :SCO: 160-161, SECTOR – 9C,  
MADHYA MARG, CHANDIGARH – 160009, INDIA  
Chandigarh India

(72)Name of Inventor :

**1)SHREY KALIYAR****2)PRAGATI KHARBANDA****3)ANIKEIT SINGLA****4)CHIRAG DHINGRA****5)GAURI ARORA****6)RUBINA DUTTA**

(57) Abstract :

Title: WRISTWATCH ABSTRACT A wristwatch (100) comprising: a processing unit (102); a case (104), a first button (108), and a second button (112), a database (208), and a communication module (210); wherein the first button (108) is coupled to a location tracker (202) and wherein the second button (112) is coupled to an emergency module (204). The communication module (210) is adapted to share the location data and/or the emergency information to the emergency contacts in a primary mode and/or in a backup mode. In the primary mode, the communication module (210) shares the location data and/or the emergency information to the emergency contacts pre-stored in a database (208), and in the backup mode, the communication module (210) shares the location data and/or the emergency information to the emergency contacts through a wristwatch application (118). Claims: 10, Figures: 5 Figure 1A is selected.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013247 A

(19) INDIA

(22) Date of filing of Application :25/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING EMOTIONAL SUPPORT

(51) International classification	:H04L0012580000, H04L0012180000, A61M0021000000, G06Q0010100000, G06Q0050020000	(71) <b>Name of Applicant :</b> <b>1)CHITKARA INNOVATION INCUBATOR FOUNDATION</b> Address of Applicant :SCO: 160-161, SECTOR – 9C, MADHYA MARG, CHANDIGARH – 160009, INDIA Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KUNAAL KIRAN KUMAR</b>
(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 :

Title: SYSTEM AND METHOD FOR PROVIDING EMOTIONAL SUPPORT ABSTRACT A system (100) for providing emotional support, the system (100) comprising: a processor (102); a non-transitory storage medium (104), an input/output (I/O) interface (106), a chat server (108) and a chat application (110). The chat server (108) comprises a registration module (112), an analyzing module (116), a decision module (118) and an inspection module (120). The decision module (118) is configured to assign a chat room to the user such that the user is enabled to chat with a group of members having a correlating psychological discomfort under an observation of a therapist, wherein the therapist is assigned based on an expertise of the therapist to handle the correlating psychological discomfort. Claims: 10, Figures: 3 Figure 1 is selected.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015460 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF VANCOMYCIN HYDROCHLORIDE FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000	(71) <b>Name of Applicant :</b> <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Ms Manjeet Kaur</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of Vancomycin Hydrochloride , the method comprising:developing pharmacophore models to extract features from the Vancomycin Hydrochloride;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Vancomycin Hydrochloride in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015500 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A DEVICE FOR POSITIONING THE MICROSCOPE HEAD AND METHOD THEREOF

(51) International classification	:G02B0021000000, A61B0090200000, A61B0034200000, A61B0090000000, A61B0003130000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC &amp; INDUSTRIAL RESEARCH</b> Address of Applicant :Anusandhan Bhawan 2 Rafi Marg New Delhi India 110 001 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRABHAT KUMAR BAGHEL</b>
(33) Name of priority country	:NA	<b>2)SANDEEP SINGHAI</b>
(86) International Application No	:NA	<b>3)SHRAVANA KUMAR R R</b>
Filing Date	:NA	<b>4)VINOD KARAR</b>
(87) International Publication No	: NA	<b>5)SANJAY SHARMA</b>
(61) Patent of Addition to Application Number:	NA	<b>6)GORAJ SINGH</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A device and method for positioning the binocular head of a surgical microscope at the working distance comprising of plurality of light guided projection based graticule mechanism with reference to the subject for ophthalmic surgery is presented. Functionally, the apparatus enables micro manipulation and positioning of surgical microscope head for setting the surgical microscope head at the working distance during an ophthalmic surgery. The system employs light guided graticule based projection modules to micro-manipulate the position of the surgical microscope head at the desired position using the mechanical controls.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111013389 A

(19) INDIA

(22) Date of filing of Application :26/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN EEG SYSTEM BASED ON BRAIN COMPUTER INTERFACE (BCI) DEEP LEARNING MODEL

(51) International classification	:G06F0003010000, G06N0020000000, A61B0005000000, G06N0003080000, G06N0005040000	(71) <b>Name of Applicant :</b> <b>1)Amity University</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)DHARMENDRA PATHAK</b>
(33) Name of priority country	:NA	<b>2)PROF.(DR.) SURENDRA RAHAMATKAR</b>
(86) International Application No	:NA	<b>3)DR. RAMGOPAL KASHYAP</b>
Filing Date	:NA	
(87) 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 an EEG system based on brain computer interface (BCI) deep learning model. The wearable device and system includes, but not limited to, a wearable EEG headset with Brain-Computer Interface deep learning model to receive varied input values; a processing unit to process varied input values from and further process for a requisite output and present on the user device in analytical form; a user interface provided on a user device to present analytical and output data; a wireless module to connect the wearable EEG headset to the user device; and a machine learning (ML) / artificial intelligence (AI) interface to train input data values provided with the user interface. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015018 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF GOSERELIN ACETATE FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, C07K0007060000	(71) <b>Name of Applicant :</b> <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Dr Khyati</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of an Goserelin Acetate, the method comprising:developing pharmacophore models to extract features from the Goserelin Acetate;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Goserelin Acetate in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015030 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF HESPERIDIN FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000	(71) <b>Name of Applicant :</b> <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Dr Khyati</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of Obeticholic Acid , the method comprising:developing pharmacophore models to extract features from the Obeticholic Acid;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Obeticholic Acid in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015907 A

(19) INDIA

(22) Date of filing of Application :05/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR BRUSH FINISH WATCH HAND

(51) International classification	:A46B0015000000, A46B0009040000, B29L0031420000, H01R0043120000, C25D0005060000	(71)Name of Applicant : <b>1)KDDL Limited</b> Address of Applicant :Kamla Centre, SCO 88-89, Sector-8, Madhya Marg, Chandigarh, Punjab, India-160018 Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)MR.GANJAM KANTHARAJ SHETTY RAMESH</b>
(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 :

A SYSTEM AND METHOD FOR BRUSH FINISH WATCH HAND The present invention relates to a system and method for brush finish watch hand. The brushed finish is obtained by pulling a brush over the surface of the metal concrete, after the surface has been levelled.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015908 A

(19) INDIA

(22) Date of filing of Application :05/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A CHAMFERING AND COLLAR CUTTING DEVICE FOR WATCH HANDS

(51) International classification	:G04G0009000000, G04C0003140000, G04B0019320000, G04D0003000000, G04D0007000000	(71)Name of Applicant : <b>1)KDDL Limited</b> Address of Applicant :Kamla Centre, SCO 88-89, Sector-8, Madhya Marg, Chandigarh, India-160018 Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)MR.GANJAM KANTHARAJ SHETTY RAMESH</b>
(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 :

A CHAMFERING AND COLLAR CUTTING DEVICE FOR WATCH HANDS The present invention relates to a system and method for chamfering and collar cutting of watch hands without any defect. Comprises base with column mounted vertically on the base to provide support to the cutting operation characterized in that table with its top surface is accurately machined and strip feeder and strip holding bed is clamped on to it to give given motions in up down directions to the clamped strip. Pneumatic Strip feeder operated using pneumatic cylinders.and is adjusted to a certain pitch so that each time when the strip feeder feeds the strip it moves repeatedly the exact same pitch characterized in that pull type strip feeders. The strip holding bed characterized in that of two polyurethane rubber pads mounted on the table. The brass strip is fed by a coiler, which holds the coil of strip and is then passed through the strip holding bed which is mounted on the machine table and the strip exists through the pneumatic strip feeder.

No. of Pages : 17 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015909 A

(19) INDIA

(22) Date of filing of Application :05/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR PROVIDING BI-FINISH WATCH HANDS

(51) International classification	:G04G0009000000, G01B0011000000, C25D0017060000, G04C0003140000, G02B0017000000	(71)Name of Applicant : <b>1)KDDL Limited</b> Address of Applicant :Kamla Centre, SCO 88-89, Sector-8, Madhya Marg, Chandigarh, India-160018 Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)MR.GANJAM KANTHARAJ SHETTY RAMESH</b>
(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 :

A SYSTEM AND METHOD FOR PROVIDING BI-FINISH WATCH HANDS The present invention relates to system and method for providing bi-finish watch hands comprises diamond cutting machine consists of Base 1 to provide support and rigidity to the machine, vertical column 2 mounted vertically on the base and is heavily ribbed inside and houses all the driving mechanisms for the spindle and table feed, table3 mounted on to the column and is fixed on to the column, pull type pneumatic strip feeder 4 with pneumatic cylinders, strip holding bed 5 consists of 2 polyurethane rubber pads and is mounted on the table wherein during the operation the brass strip is passed through the strip holding bed and it clamps the brass strip firmly while the cutting action takes place two spindles 6 mounted on screw rods.

No. of Pages : 13 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015964 A

(19) INDIA

(22) Date of filing of Application :05/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN AMBIENT AIR FILTER DEVICE

(51) International classification :B01D0035000000,  
E03F0001000000,  
E06B0007280000,  
B01D0050000000,  
A47J0036000000

(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)DEVOUT EMINENCE PRIVATE LIMITED**  
Address of Applicant :Civil Lines, Jagadhri, District  
Yamunanagar, Haryana-135003, India. Haryana India

(72)Name of Inventor :  
**1)SHIVAM AGGARWAL**  
**2)ANJALI**

(57) Abstract :

The present disclosure relates to an ambient air filter device (100). The device (100) comprises a main metal frame (101) mounted on the outer part of the ambient air filter (100). Metal shutters/ air vents (102) are mounted on the front side and back side of the main metal frame (101). A filter screen/sponge/mesh screen (103) provided between the metal shutters (102). A collection tray (104) mounted on the bottom side of the main metal frame (101). A water tank (105) having first compartment and second compartment. The first inlet pipe (106) of the water tank (105) is connected to the main tank of the house. The first inlet pipe (106) is used to fill the water in first compartment of the water tank (105) and the second compartment of the water tank (10 5). The outlet pipe of the water pipe is used to discharge water on the filter screen. [[TO BE PUBLISHED WITH Fig. 1 and Fig. 2]]

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015966 A

(19) INDIA

(22) Date of filing of Application :05/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IN-SILICO DESIGNING OF A POTENTIAL ANTAGONISTIC MOLECULE AGAINST MECHANISTIC TARGET OF RAPAMYCIN HAVING UNDERLYING SIGNIFICANCE IN BREAST CANCER THERAPEUTICS

(51) International classification	:G16B0005000000, G16C0020500000, A61P0035000000, G16B0015000000, C07K0014735000	(71)Name of Applicant : <b>1)Dr. VARRUCHI SHARMA</b> Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, SRI GURU GOBIND SINGH COLLEGE SECTOR 26, CHANDIGARH. INDIA- 160019 Chandigarh India
(31) Priority Document No	:NA	<b>2)Dr. ANIL K. SHARMA</b>
(32) Priority Date	:NA	<b>3)Dr. SANDEEP KUMAR SHARMA</b>
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)Dr. VARRUCHI SHARMA</b>
Filing Date	:NA	<b>2)Dr. ANIL K. SHARMA</b>
(87) International Publication No	: NA	<b>3)Dr. SANDEEP KUMAR SHARMA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

IN-SILICO DESIGNING OF A POTENTIAL ANTAGONISTIC MOLECULE AGAINST MECHANISTIC TARGET OF RAPAMYCIN HAVING UNDERLYING SIGNIFICANCE IN BREAST CANCER THERAPEUTICS This invention provides best designed ligand with best binding affinity (?G -5.96Kcal/mole) around the binding cleft along with lower RMSD value, exhibiting safety and efficacy features as well. The designed compound was adjudged best upon the bioavailability parameters, displaying inhibitory characteristics with lower toxicity levels.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015378 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF L-GLUTAMIC ACID MONOSODIUM SALT FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000	(71)Name of Applicant : <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, School of Medical and Allied Sciences, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Mr Agnivesh</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of an L-Glutamic acid monosodium salt drug, the method comprising:developing pharmacophore models to extract features from the L-Glutamic acid monosodium salt ;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the L-Glutamic acid monosodium salt drugin order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015383 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DISCOVEY OF PIRARUBICIN HYDROCHLORIDE FOR TREATING CORONAVIRIDAE FAMILY OF VIRUS

(51) International classification	:G16C0020500000, G16B0035000000, G16C0020600000, G16B0015000000, G16C0020400000	(71)Name of Applicant : <b>1)Sanskriti University</b> Address of Applicant :Sanskriti University, 28 K. M. Stone, Mathura – Delhi Highway, Chhata, Mathura Uttar Pradesh (U.P.) Pin – 281401 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Vishal M. Balaramnavar</b>
(33) Name of priority country	:NA	<b>2)Ms. Deepti Mathpal</b>
(86) International Application No	:NA	<b>3)Dr Anil Ahuja</b>
Filing Date	:NA	
(87) 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 (300) for identifying a binding site of an Pirarubicin Hydrochloride , the method comprising: developing pharmacophore models to extract features from the Pirarubicin Hydrochloride;validating the developed pharmacophore models by comparing with pre-defined models of existing coronavirus drugs;performing a ligand-based virtual screening (first virtual screening) of a database of drugs with the validated pharmacophore models; performing a structure-based virtual screening (second virtual screening) of the validated pharmacophore models by structural docking of a target protein into the validated pharmacophore models; assigning a score to each pharmacophore model of the Pirarubicin Hydrochloride in order to identify the validated pharmacophore models with a high binding affinity and efficiency; and comparing the score obtained from the ligand-based virtual screening (first virtual screening) and the structure-based virtual screening (second virtual screening) for classifying the scored pharmacophore models based on the target protein binding affinity and efficiency for the coronaviridae family of virus.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015432 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FERMENTED TEA COMPOSITION WITH ANTI OBESITY PROPERTY AND PROCESS FOR PREPERATION THEREOF

(51) International classification	:A23F0003340000, A23F0003160000, C12R0001020000, A23L0002380000, C12J0001040000	(71)Name of Applicant : <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg, New Delhi India 110 001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Vikram Patial</b>
(86) International Application No	:NA	<b>3)Sanjay Kumar</b>
Filing Date	:NA	
(87) 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 process for development of functional tea beverage has been disclosed in the present invention. The present invention provides a process for preparation of fermented tea beverage with tea bioactives with better sensory and organoleptic properties. More particularly the present invention provides a two-step process involving fermentation of the brewed tea infusion using yeast (*Saccharomyces cerevisiae*) and second step of acetic acid fermentation, with (*Acetobacter aceti*) mother culture. This fermented tea beverage composition enriched with natural phenolic antioxidants and organic acids solely produced during fermentation. Moreover, this therapeutic beverage developed under present invention showed positive results against obesity.

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111016782 A

(19) INDIA

(22) Date of filing of Application :09/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BALLISTIC PROTECTION DEVICE WITH PRECISION- GUIDED FIREARM AND TARGET DETECTION

(51) International classification

:G08B  
13/19

(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)Chitkara Innovation Incubator Foundation**

Address of Applicant :SCO: 160-161, Sector - 9c, Madhya  
Marg, Chandigarh- 160009, India. Chandigarh India

(72)Name of Inventor :

**1)BAWA, Puneet**

**2)AHUJA, Sachin**

**3)KADYAN, Virender**

**4)DHAKAR, Shishir**

**5)BINDLISH, Pulkit**

(57) Abstract :

The present disclosure pertains to a ballistic protection device with precision-guided and target detection. The device includes a housing with set of sensors (110), a controller (114), an image capturing unit (112), display unit (116), and one or more illumination devices (402). The controller (114) facilitates determining target and calculating distance of the target from the device (100). The controller (114) enables in live streaming of interest of area during shooting and firing on the display unit (116). The device (100) helps in providing mobility during shooting and target fixing along with target detection and permission accessibility through simple password protection. The device (100) facilitates customized option for fast processing along with an option to choose size of bullet/bullet round on OLED display (116).

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015501 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A DEVICE FOR SOLID PHASE EXTRACTION AND PROCESS THEREOF

(51) International classification :G01N0001400000,  
G01N0030060000,  
B01D0011020000,  
G01N0035000000,  
G01N0030120000

(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**

Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi  
Marg New Delhi Delhi India 110 001 Delhi India

(72)Name of Inventor :

**1)Pawan Kumar Rai**

**2)Srishti Mehrotra**

**3)Sandeep Kumar Sharma**

(57) Abstract :

**ABSTRACT A DEVICE FOR SOLID PHASE EXTRACTION AND PROCESS THEREOF** The present invention provides instrumentation assembly for the process of solid phase extraction. The device comprises of a pump [A, Fig. 1], an air flow regulating tube [C, Fig. 1], cartridges [D, Fig. 1], holding rack [F, Fig. 1], sample collector vials [E, Fig. 1], and a waste collector [G, Fig. 1]. The present invention can be adapted for a number of applications including extraction of volatile components that are generally lost during the evaporation/drying/concentration of elute. The described process is advantageous as it allows the recovery of both the volatile and non-volatile components that is present in the sample. A lab-made instrument includes a flow control assembly and a housing assembly for the preparation of samples and can be used as an alternative for the commercially available solid phase extraction assembly. Fig:1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111015502 A

(19) INDIA

(22) Date of filing of Application :31/03/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS FOR PREPARATION OF PHENYLETHANOLAMINE COMPOUNDS AND USE THEREOF

(51) International classification	:A61K0031445000, H01M0004040000, G16H0010200000, H04W0004240000, C07D0213803000	(71)Name of Applicant : <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860)</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi Marg New Delhi Delhi India 110 001 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Gautam Panda</b>
(33) Name of priority country	:NA	<b>2)Deblina Roy</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

PROCESS FOR PREPARATION OF PHENYLETHANOLAMINE COMPOUNDS AND USE THEREOF ABSTRACT The present invention relates to a new process for cost effective and efficient synthesis of phenylethanolamine compounds such as IFENPRODIL which is a COVID-19 therapeutics. The present invention has used cheap material bromine for in situ bromination without isolating it and subsequently easily handled NaBH<sub>4</sub> for reduction

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

(54) Title of the invention : ISOPRENYL NATURAL SCAFFOLD AGAINST MDR STAPHYLOCOCCUS AUREUS AND SYNERGISTIC COMPOSITIONS THEREOF

<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>:A61P0031040000, C12Q0001180000, A61K0031722000, A61K0031703600, A23L0003347200</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH an Indian registered body incorporated under the Regn. of Soc. Act (Act XXI of 1860)</b></p> <p>Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi Marg New Delhi Delhi India 110 001 Delhi India</p> <p>(72)Name of Inventor :</p> <p><b>1)KOKKUVAYIL VASU RADHAKRISHNAN</b></p> <p><b>2)MURUGAN THULASI MEENU</b></p> <p><b>3)SIDHARTH CHOPRA</b></p> <p><b>4)GRACE KAUL</b></p> <p><b>5)MANJULIKA SHUKLA</b></p>
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## (57) Abstract :

This invention relates to the inhibitory activity of the combination of a natural chemical entity Artocarpin with standard drug gentamycin against different multi drug-resistant and susceptible strains of *S. aureus*. The synergy combination of the disclosed compound AH-5 with gentamycin is confirmed using checker board assay, by determining the fractional inhibitory concentration. The FIC index of the combination found to be 1/4th of the MIC of gentamycin, which indicates the synergistic behavior. Further, the above-mentioned combination is capable of inhibiting the complex bacterial communities that are more resistant towards antibiotics. It is showing an anti-biofilm property by reducing the bacterial biomass by 9.7%, as compared to the untreated, which is far better than the existing drugs levofloxacin 1X MIC (6.8%) and Vancomycin 1X MIC (6.3%). The combination is also proved to be bactericidal in nature, effective in killing the bacteria up to zero CFU/mL in 24 h, which is a much-needed feature for a drug lead candidate. It also proves the concentration-dependent bactericidal nature of the combination and its capability to resist the growth of colony forming units of bacteria in a static manner. This bactericidal nature of these combination makes it more efficient towards MDR bacteria. In short, the disclosed combination of AH-5 and gentamycin is highly active against the MDR bacterial strains of *S. aureus*, one of the current threats in public medicine. In-vitro analysis and the synergistic studies also suggesting that the combination could be converted into an effective antibacterial drug clinically.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018136 A

(19) INDIA

(22) Date of filing of Application :20/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : CURCUMA LONGA SENSITIZED BIVO4 NANOSTRUCTURES FOR REMOVAL OF RECALCITRANT POLLUTANTS AND METHOD THEREOF

(51) International classification	:A61K0036906600, B01J0035000000, C02F0001300000, C02F0101300000, C02F0101380000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr Seema Garg</b>
(32) Priority Date	:NA	<b>2)Ms Harshita Chawla</b>
(33) Name of priority country	:NA	<b>3)Dr Amrish Chandra</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 Curcuma longa Sensitized BiVO<sub>4</sub> nanostructures for removal of recalcitrant pollutants and method thereof. In the present invention, Bismuth vanadate (BiVO<sub>4</sub>) was synthesized using Curcuma longa powder by simple one step one pot hydrolysis route at 65°. The photocatalyst was designed using curcuma longa extract and was compared with photocatalyst designed simply using curcumin and other without any sensitizer. The catalyst synthesized using natural powder of Curcuma longa (BVO-G) leads to a much higher photocatalytic response driven by visible light spectra when compared to chemical one (BVO-C). The obtained catalyst powder was employed for degradation of Methyl Orange (MO, λ<sub>max</sub>=465 nm) and 2, 4-Dichlorophenoxy acetic acid (2,4 D, λ<sub>max</sub>=266 nm) herbicide. BVO-G degrades 90.2% of 2,4 D (20 mg L<sup>-1</sup>) under exposure of visible white light radiations for 120 min. The photocatalytic studies were compared with bismuth vanadate formed in similar conditions without curcuma longa extract. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111016100 A

(19) INDIA

(22) Date of filing of Application :06/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INTERLOCK ASSEMBLY FOR RMU

(51) International classification	:H01H0009220000, H02B0013025000, B65H0029500000, B28D0005000000, H01H0033666000	(71)Name of Applicant : <b>1)Schneider Electric India Private Limited</b> Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MOHRIR, Atharva Rajendra</b>
(33) Name of priority country	:NA	<b>2)RAJHANS, Rupesh Subhashrao</b>
(86) International Application No	:NA	<b>3)SHEIKH, Shariq Mohammad</b>
Filing Date	:NA	<b>4)SHARMA, Abhishek</b>
(87) International Publication No	: NA	<b>5)LOHAR, Rohit Shankar</b>
(61) Patent of Addition to Application Number	:NA	<b>6)JOSHI, Devansh Pravin</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an interlock assembly (100) for a ring main unit (RMU). The interlock assembly (100) includes a base plate (102) to be mounted on a face of the RMU (124). The base plate (102) includes an opening (104). A first cover plate (130) operatively configured with the base plate (102), the first cover plate (130) configured to move between a first position and a second position through a first switch (108) associated with the first cover plate (130). A first interlock (110) configured to move between a third position and a fourth position. A vertical member (112) selectively engaged with a door of the cable chamber (116) of the RMU (124) for opening of the door.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018976 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A WATER PURIFICATION AND NUTRITIONAL ENRICHMENT SYSTEM

(51) International classification	:C02F0001440000, C02F0001000000, H04N0021485000, G16H0040630000, H02M0001000000	(71) <b>Name of Applicant :</b> <b>1)CHAND, PRANAV TEK</b> Address of Applicant :103/104, LGF/UGF, DOUBLE STOREY, NEW RAJINDER NAGAR, DELHI - 110060 Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CHAND, PRANAV TEK</b>
(33) Name of priority country	:NA	<b>2)SINGH, MANJINDER PAL</b>
(86) International Application No	:NA	<b>3)SINGH, DALJIT</b>
Filing Date	:NA	
(87) 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 water purification and nutritional enrichment system comprising a rear panel of the housing having a water inlet, a filtering unit, an ionization chamber, a water storage tank, a control panel, a power supply unit, and a water outlet. The filtering unit is in fluid communication with the water inlet to filter the raw water. The ionization chamber, having a first end and a second end, is placed between the filtering unit and a water storage tank to ionize the filtered water. The second end of the ionization chamber abuts the housing and has a detachable cap along the outer sidewall of the rear panel of the housing. The purified water is then passed to the storage tank through fluid communication. The water outlet is provided in the system to allow the purified water to exit the system.

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018986 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : REST API PROVIDED BY A LOCAL AGENT TO DETECT NETWORK PATH OF A REQUEST

(51) International classification	:H04L0029060000, H04W0036240000, H04L0012240000, H04L0012260000, G06F0009540000	(71) <b>Name of Applicant :</b> <b>1)Zscaler, Inc.</b> Address of Applicant :120 Holger Way, San Jose, CA 95134, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gupta Rishabh</b>
(33) Name of priority country	:NA	<b>2)Mahajan Vikas</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

REST API provided by a local agent to detect network path of a request Systems and methods (1250) implemented by a user device (300) include receiving (1252) a request, from an application (854) executed on the user device (300), to identify a network path for a destination; determining (1254) the network path to the destination including ports, addresses, and inline proxies; and providing (1256) details of the network path to the application (854).

No. of Pages : 59 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018996 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR DEVELOPMENT OF ALGINATE ENTRAPPED LIVE DIATOM AQUAFEED

(51) International classification	:A23K0050800000, C12N0011040000, A23K0020158000, C02F0003300000, C12N0011100000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Archana Tiwari</b>
(33) Name of priority country	:NA	<b>2)Bharti Mishra</b>
(86) International Application No	:NA	<b>3)Dr. Abhishek Saxena</b>
Filing Date	:NA	
(87) 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 DEVELOPMENT OF ALGINATE ENTRAPPED LIVE DIATOM AQUAFEED The present invention relates to a method for development of alginate entrapped live diatom aquafeed. In the present invention, the immobilization of diatoms on natural polymers i.e. sodium alginate has been successfully achieved which is useful as live feed for aquaculture farming. In the past, alginate-based encapsulation has been employed successfully for nutrient removal, wastewater remediation. Therefore, an effort has been put forward for the entrapment of diatoms in sodium alginate and its application as a live feed. Entrapment of diatoms in sodium alginate is highly beneficial since alginate protects the microbes from external environment stress, retains cell viability, non-toxicity as well a cost-effective approach. Also, encapsulation of microorganisms in alginate bead become popular as live fish feed which is better than traditional fish feed. The main aim of this invention is to formulate a stable bead that could be utilized as live feed for aquaculture farming. Accompanied Drawing [FIG. 1] Dated this 22nd day of April, 2021 AMITY UNIVERSITY Name of Applicant Signature: Name: Dr. B. L. Arya

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017331 A

(19) INDIA

(22) Date of filing of Application :14/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR MELANOMA CLASSIFICATION USING USING NEURAL NETWORK STICK

(51) International classification	:G06K0009000000, G06T0007000000, A61B0005000000, G06N0003020000, G06K0009620000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr Sachin Kumar</b>
(33) Name of priority country	:NA	<b>2)Ms Kumud Tiwari</b>
(86) International Application No	:NA	<b>3)Dr Sumita Mishra</b>
Filing Date	:NA	<b>4)Wg. Cdr(Dr.) Anil Kumar</b>
(87) 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 system for melanoma classification employing using neural network stick, which is implemented for the a model for predicting exact area of skin lesion based on triangulation algorithm for infected region, which are not of ellipse shape, technique provides infected area estimation with less latency as compared to best fit ellipse shape technique and improved efficiency. The system includes, but not limited to, a video/Photo derma camera with a user device adapted for lesion image acquisition after which area of lesion is estimated through triangulation technique; a processing unit for data quality check & feature extraction via triangulation technique; a wireless module for connecting the user device to the processing unit; a neural network stick for reduced latency and improved infected area estimation and classification; and a display unit for showing the output to the user on the user device. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017399 A

(19) INDIA

(22) Date of filing of Application :14/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS FOR THE FABRICATION OF BIODEGRADABLE MAGNESIUM-BASED ALLOYS FOR ORTHOPAEDIC APPLICATIONS AND THEREOF

(51) International classification :A61F0002300000,  
A61L0031140000,  
A61L0027580000,  
A61L0031020000,  
C22C0023020000

(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 :  
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Address of Applicant :Dean, Research & Development, Room  
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Technology Kanpur, Kanpur- 208016, Uttar Pradesh, India Uttar  
Pradesh India

(72)Name of Inventor :  
**1)ASHOK KUMAR**  
**2)SHAZIA SHAIKH**

(57) Abstract :

The present invention relates to the development/fabrication of pure magnesium and pure magnesium based biodegradable bioactive alloys for temporary orthopaedic implant applications. The process developed here discloses a novel process for obtaining high purity magnesium and its alloys with controlled degradation rate suitable for bone implants. This process discloses magnesium purification via repeated casting method, and its alloying with materials like apatite to produce magnesium alloys that can be used as safe orthopaedic implants.

No. of Pages : 39 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019522 A

(19) INDIA

(22) Date of filing of Application :28/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR PREPARING MOS2 AND CDMOS4 NANOSTRUCTURES BASED UV LIGHT PHOTODETECTOR

(51) International classification	:H01L0031180000, B82Y0030000000, B01J0035020000, C01G0039060000, H01L0031108000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dattatray Jaysing Late</b>
(33) Name of priority country	:NA	<b>2)Mahendra A Pawar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 PREPARING MOS2 AND CDMOS4 NANOSTRUCTURES BASED UV LIGHT PHOTODETECTOR The present invention relates to a method for preparing MoS2 and CdMoS4 nanostructures based UV light Photodetector. The present invention is developed MoS2 nanosheets and CdMoS4 hierarchical nanostructures based UV light photodetector. The surface morphologies of the prepared samples were investigated using Field Emission Scanning Electron Microscopy (SEM) and Transmission Electron Microscopy (TEM). The performance parameters for the present photodetectors are investigated under the illumination of UV light having wavelength ~385 nm. Upon illumination, the CdMoS4 based photodetector device showed better response to UV light compared to MoS2 device in terms of photoresponsivity, response time (~72 sec) and recovery time (~94 sec). Our results reveals that CdMoS4 hierarchical nanostructures are useful for enhancing the device performance. Accompanied Drawing [FIGS. 1 & 2] Dated this 27th day of April, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Prof. Dr. Kamal Kant Dwivedi

No. of Pages : 21 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019523 A

(19) INDIA

(22) Date of filing of Application :28/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : THE SECURITY SYSTEM FOR FISHERMEN IN AN OCEAN ZONE

(51) International classification	:G06K0009000000, A61B0005000000, G08B0025000000, G09G0003280000, G08B0025100000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Reshu Agarwal</b>
(33) Name of priority country	:NA	<b>2)Mrs. Manisha Pant</b>
(86) International Application No	:NA	<b>3)Dr. Ajay Rana</b>
Filing Date	:NA	
(87) 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 SECURITY SYSTEM FOR FISHERMEN IN AN OCEAN ZONE The present invention relates to the waterway transportation and in particular, relates to the identification system for ocean boundary area under one's jurisdiction and alerts fisherman and travelers from dangers in the ocean. The proposed invention discloses the technology to help the fishermen that they are approaching the danger zone. This invention is based on photoelectric absorption. The sea borders having the floater to guard the boundary have LED bulbs incorporated within them. These LED emit light of specific intensity and fishermen boat designed to capture the intensity of light can form a complete warning system. The photodiode produces the current in accordance with the received intensity that varies the sound intensity of speakers. Closer the boat arrives larger is the current produced by photodiode and hence greater is the sound intensity produced at the output or speaker. Accompanied Drawing [FIG. 2] Dated this 28th day of April, 2022 Signature: Name: Dr. B. L. Arya Applicant: Amity University

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017452 A

(19) INDIA

(22) Date of filing of Application :14/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : TOPICAL FORMULATION COMPRISING TOFACITINIB AND PREPARATION THEREOF

(51) International classification	:A61K0009127000, A61K0009000000, A61K0009510000, A61K0047240000, A61K0009107000	(71)Name of Applicant : <b>1)BIRLA INSTITUTE OF TECHNOLOGY &amp; SCIENCE (BITS), PILANI</b> Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031. Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Srividya Gorantla</b>
(33) Name of priority country	:NA	<b>2)Dr. Gautam Singhvi</b>
(86) International Application No	:NA	<b>3)Prof. Rajeev Taliyan</b>
Filing Date	:NA	<b>4)Prof. Ranendra Narayan Saha</b>
(87) 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 Provided herein is a topical formulation comprising of a therapeutically effective amount of tofacitinib and a surface modified nanocarrier, wherein tofacitinib is loaded into the nanocarrier. The nanocarrier is one selected from a group consisting of lipid-based nanocarriers, liposomes, niosomes, transfersomes, solid lipid nanoparticles, nanostructured lipid carriers, and lipid nanoemulsions.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017476 A

(19) INDIA

(22) Date of filing of Application :15/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR ENSURING WELL-BEING OF HUMAN LIVES

(51) International classification	:G06Q0030060000, H04W0008000000, G06F0021100000, H04W0076140000, H04W0074000000	(71)Name of Applicant : <b>1)MOHIT GAMBHIR</b> Address of Applicant :H. No. 221, Sec-17, Faridabad, Haryana - 121002 Haryana India <b>2)SAPNA GAMBHIR</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MOHIT GAMBHIR</b>
(33) Name of priority country	:NA	<b>2)SAPNA GAMBHIR</b>
(86) International Application No	:NA	<b>3)NAMITA MITTAL</b>
Filing Date	:NA	
(87) 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: SYSTEMS AND METHODS FOR ENSURING WELL-BEING OF HUMAN LIVES ABSTRACT A system (100) for well-being of homosapiens, comprising: a request generation module (202) configured to enable a primary user to initiate a service request; a matching module (204) configured to generate a service notification when the user details associated with the service request are matched with user details of secondary users; a notification module (206) configured to transmit the service notification to a user device (102) of the matched secondary users; a service confirmation module (208) configured to enable the matched secondary user to accept the service request; a timer module (212) configured to compute a total time taken in completing the service associated with the service request; and an action module (214) configured to enable the secondary user to select a type of compensation, wherein the action module (214) is further configured to update a time book and/or a money book. Claims: 10, Figures: 3 Figure 1 is selected.

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111017477 A

(19) INDIA

(22) Date of filing of Application :15/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : WEARABLE SANITIZING APPARATUS AND METHOD THEREOF

(51) International classification	:A61B0005110000, G16H0040670000, G04G0015000000, A61L0002180000, G04G0009000000	(71)Name of Applicant : <b>1)MOHIT GAMBHIR</b> Address of Applicant :H. No. 221, Sec-17, Faridabad, Haryana - 121002 Haryana India <b>2)SAPNA GAMBHIR</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MOHIT GAMBHIR</b>
(33) Name of priority country	:NA	<b>2)SAPNA GAMBHIR</b>
(86) International Application No	:NA	<b>3)NAMITA MITTAL</b>
Filing Date	:NA	
(87) 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: WEARABLE SANITIZING APPARATUS AND METHOD THEREOF ABSTRACT A wearable sanitizing apparatus (100) comprising: a lower assembly (102) having lower nozzles (110a-110n); and an upper assembly (104) attached to the lower assembly (102) comprising an upper sanitizer container (120) holding the liquid to be dispensed; a digital timer (126) to enable the user to set a time interval for dispensing the liquid through the lower nozzles (110a-110n) and/or the upper nozzles (122a-122m); and a processing unit (134) configured to: receive the time interval set by the user; determine an alert generation time by subtracting a predefined value from a numerical value of the time interval set by the user; generate an alert signal when the alert generation time is reached; activate a vibrator (130) to alert the user based on the generated alert signal; dispense the liquid through the lower nozzles (110a-110n) and the upper nozzles (122a-122m) when the time interval set by the user is reached. Claims: 10, Figures: 14 Figure 1A is selected.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020100 A

(19) INDIA

(22) Date of filing of Application :03/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR PARKING SPACE ASSISTANCE

(51) International classification	:G08G0001140000, G06Q0010020000, B62D0015020000, G08G0001160000, G06K0009000000	(71) <b>Name of Applicant :</b> <b>1)Sagar Pruthi</b> Address of Applicant :H. No. 277b/20 bank colony hansa, Hisar, Haryana 125033 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sagar Pruthi</b>
(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 PARKING SPACE ASSISTANCE Aspects of the present disclosure relate to a system (100) and method (200) for providing parking space assistance. The system (100) assists the user of a vehicle with the identification and reservation of nearby parking spaces for their vehicles. The identification of a feasible parking space is determined based on the geographic location of the user/vehicle by usage of geolocation techniques after which the system (100) assesses the nearby area for identification of feasible parking spaces and provides this information to the user, following which the user may reserve the parking space for this purpose the system (100) uses modules such as processing modules (104), area processing module (108), etc. The invention promotes proper and efficient management and also provides its users with a more convenient, swifter and time efficient solution for parking their vehicles. The present invention also provides a method (200) for parking space assistance. (FIG. 1 will be the reference figure)

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019702 A

(19) INDIA

(22) Date of filing of Application :29/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : COPPER BASED COMPOUNDS HAVING ANTI-MICROBIAL PROPERTIES

(51) International classification	:A61Q0019000000, C09D0005140000, B32B0027120000, A01N0063000000, A61Q0017000000	(71)Name of Applicant : <b>1)SAINI, Vikram</b> Address of Applicant :Laboratory of Infection Biology & Translational Research Department of Biotechnology,AIIMS New Delhi India 110029 Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SAINI, Vikram</b>
(33) Name of priority country	:NA	<b>2)KATARIA, Ramesh</b>
(86) International Application No	:NA	<b>3)KUSHWAHA, Namrata</b>
Filing Date	:NA	<b>4)FNU, Richa</b>
(87) 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 is directed towards copper (II) complex chemical compound. These copper based compounds have antimicrobial properties and can significantly improve the efficiency of traditional disinfectants used in hospitals/general areas/clean rooms, thus preventing nosocomial infections.

No. of Pages : 43 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019808 A

(19) INDIA

(22) Date of filing of Application :30/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PRINTED TARPAULINS WITH IMPROVED AESTHETICS AND PROCESS FOR PREPARATION THEREOF

(51) International classification	:B32B0027320000, B32B0027120000, B32B0027000000, B32B0037120000, D06N0003000000	(71) <b>Name of Applicant :</b> <b>1)SIDHARTH SAREEN</b> Address of Applicant :211 B Rani Jhansi Road, Civil Lines, Ludhiana-141001, Punjab, India Punjab India <b>2)MUKUL SAREEN</b>
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SIDHARTH SAREEN</b>
(33) Name of priority country	:NA	<b>2)MUKUL SAREEN</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 Printed Tarpaulins with improved aesthetics and process for preparation thereof. A high strength tarpaulin is provided with printed surface for improved aesthetics or for special function like visual camouflage etc. The tarpaulin may be made up of HDPE, PP, LDPE or any other polymer which is made by extrusion, weaving, multilayered cross lamination or by coating or laminating different layers of similar or different materials together. The printing can be carried out on one side or on both sides depending upon the requirement.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019894 A

(19) INDIA

(22) Date of filing of Application :30/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN INTERACTIVE COGNITIVE SYSTEM FOR CHILDREN

(51) International classification	:H04L0029080000, A63F0013212000, A63F0013213000, G09B0005060000, G08B0021180000	(71) <b>Name of Applicant :</b> <b>1)Yugasa Software Labs Pvt. Ltd.</b> Address of Applicant :Flat 201, Bhawna CGHS, Sector 43, Gurgaon - 122009, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ashish Mittal</b>
(33) Name of priority country	:NA	<b>2)Vivek Mittal</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 INTERACTIVE COGNITIVE SYSTEM FOR CHILDREN An interactive cognitive system (100) for children comprises an interactive modular device (102) capable of learning and interacting; and a mobile computing device (120) associated with a user and connected with the interactive modular device (102). The interactive modular device (102) includes an audio module (106); an image acquisition module (108); a communication module (112); a processing module (110); a body (104) to house the audio module (106), the image acquisition module (108), the communication module (112) and the processing module (110); and the one or more fixed and moveable accessories (116). Herein, the one or more fixed and moveable accessories (116) are adapted to be assembled with body (104) to form the interactive modular device (102) form one of a plurality of 3D structures and facilitate interactions and movements of the interactive modular device (102), as per instructions from the processing module (110). [FIGURE 1]

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019966 A

(19) INDIA

(22) Date of filing of Application :30/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR STABILIZATION OF NUCLEIC ACID NANOSTRUCTURES

(51) International classification	:C12N0015870000, A61K0009000000, A61K0048000000, C07H0021020000, B82Y0005000000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA , UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vinit Kumar</b>
(33) Name of priority country	:NA	<b>2)Reshma Rani</b>
(86) International Application No	:NA	<b>3)Ms. Mamta Singh</b>
Filing Date	:NA	
(87) 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 STABILIZATION OF NUCLEIC ACID NANOSTRUCTURES** The present invention relates to a method for stabilization of nucleic acid nanostructures. The present invention discloses the stabilization of nucleic acids-based nanostructures in biological context. This disclosure relays to the new robust single-step methods for the stabilization of nucleic acid nanostructures in a structure independent manner without the need for any post-synthetic modifications under biorelevant conditions. This invention relates to drug and gene delivery applications. Accompanied Drawing [FIG. 1]

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111019967 A

(19) INDIA

(22) Date of filing of Application :30/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR RECOGNIZING THE IDENTITY OF THE SUSPECT ON PORTABLE DEVICE USING FINGERPRINT SCANNING

(51) International classification	:G06K0009000000, G06F0021320000, G06F0003048800, G07C0009370000, A61B0005117200	(71) <b>Name of Applicant :</b> <b>1)Amity University</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Swapnesh Taterh</b>
(33) Name of priority country	:NA	<b>2)ANKIT SAXENA</b>
(86) International Application No	:NA	<b>3)Dr. Akash Sanghi</b>
Filing Date	:NA	
(87) 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 FOR RECOGNIZING THE IDENTITY OF THE SUSPECT ON PORTABLE DEVICE USING FINGERPRINT SCANNING The present invention relates to a system for recognizing the identity of the suspect on portable device using fingerprint scanning. The present invention is a fingerprint sensor provided on the portable device; a database provided on a central server to store and creates a log file of the fingerprints of the user; and a user interface to match the fingerprints of the user from the previously stored fingerprints on demand for a predefined situation.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020391 A

(19) INDIA

(22) Date of filing of Application :04/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SOIL FERTILITY MONITORING AND ADVISORY DEVICE

(51) International classification	:G01N0033240000, A01B0079000000, G01D0021020000, A61B0005010000, A61B0005145000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr Debjani Ghosh</b>
(33) Name of priority country	:NA	<b>2)Akash Anand</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 SOIL FERTILITY MONITORING AND ADVISORY DEVICE The present invention relates to a soil fertility monitoring and advisory device, which is implemented to get real-time soil fertility status which includes essential macro and micronutrient values like pH, electrical conductivity, moisture etc. The system includes, but not limited to, a plurality of sensors placed into the certain depth of the arable land to measure the soil fertility status; a processing unit for data quality check & feature extraction via the plurality of sensors; a wireless module for connecting a user device to the processing unit; a machine learning module for determining the soil health report along with the fertilizers recommendation and compost usage on the mobile user device. Accompanied Drawing [FIG. 1]

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020392 A

(19) INDIA

(22) Date of filing of Application :04/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR REAL-TIME MONITORING OF ANIMALS AND HUMAN ACTIVITIES IN PROTECTED AREAS

(51) International classification	:A61B0005000000, H04N0005330000, A01M0029100000, A01M0029160000, G01N0033000000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Divya Gautam</b>
(32) Priority Date	:NA	<b>2)Dr. Pankaj Kumar Mishra</b>
(33) Name of priority country	:NA	<b>3)Dr. Venkatadri Marriboyina</b>
(86) International Application No	:NA	<b>4)Dr. Raghavendra Sharma</b>
Filing Date	:NA	<b>5)Saurabh Sharma</b>
(87) International Publication No	: NA	<b>6)Dr. Ashok Kumar Shrivastava</b>
(61) Patent of Addition to Application Number:	NA	<b>7)Dr. Kapil Sharma</b>
Filing Date	:NA	<b>8)Dr. Deepak Motwani</b>
(62) Divisional to Application Number	:NA	<b>9)Dr Ramakant Bhardwaj</b>
Filing Date	:NA	<b>10)Dr. Ranjeet K. Brajpuriya</b>
		<b>11)Dr. Uma Shankar Sharma</b>
		<b>12)Dr. Meghna Utmal</b>

(57) Abstract :

ABSTRACT A SYSTEM FOR REAL-TIME MONITORING OF ANIMALS AND HUMAN ACTIVITIES IN PROTECTED AREAS The present invention relates to a system for real-time monitoring of animals and human activities in protected areas. The system is proposed to develop a user friendly application for wildlife authority, and for the Field staff to record and communicate the field level information. The system includes a processing unit to take input from a plurality of sensors and a thermal infrared imaging cameras. The sensors are placed at predefined locations in the protected areas; and the sensors includes ultrasonic sensors. Accompanied drawing [FIG. 1]

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020393 A

(19) INDIA

(22) Date of filing of Application :04/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A WEARABLE HEAD MOUNTED ASSEMBLY FOR CONDUCTING AN ONLINE EXAM

(51) International classification	:H04L0029060000, G06F0003010000, A61B0005000000, G02B0027010000, G09B0005140000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Dolly Sharma</b>
(33) Name of priority country	:NA	<b>2)Sumit Gautam</b>
(86) International Application No	:NA	<b>3)Ms. Monu Singh</b>
Filing Date	:NA	
(87) 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 WEARABLE HEAD MOUNTED ASSEMBLY FOR CONDUCTING AN ONLINE EXAM The present invention relates to a wearable head mounted assembly for conducting an online exam, which is implemented to provide better security as compared to other existing online examination systems. The system includes, but not limited to, a virtual reality box to display the questions to an examinee, a user device for login into the online exam, a cloud server for authentication, verification of the examinee and sends the questions one at a time and motors are used in the assembly for aligning a camera to face, for aligning the VR box, turning lock around the neck, and locking the VR box so that the examinee cannot remove the user device until the exam gets over. Accompanied Drawing [FIG. 1]

No. of Pages : 20 No. of Claims : 6

(54) Title of the invention : INVESTIGATION OF FAKE IDENTITIES AND FAKE NEWS DETECTION ON SOCIAL MEDIA USING SOFT COMPUTING ALGORITHMS

(51) International classification	:G06Q0050000000, G06N0003040000, G06N0003080000, H04L0029060000, G06N0020000000	(71)Name of Applicant : <b>1)Borkar Bharat Sampatrao</b> Address of Applicant :Research Scholar, Department of Computer Science & Engineering, School of Engineering & Technology, Suresh Gyan Vihar University, Jaipur (Rajasthan) Rajasthan India
(31) Priority Document No	:NA	<b>2)Dr. Mukesh Kumar Gupta</b>
(32) Priority Date	:NA	<b>3)Dr. Manish Sharma</b>
(33) Name of priority country	:NA	<b>4)Patil Dipak Raghunath</b>
(86) International Application No	:NA	<b>5)Markad Ashok Vitthalrao</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Borkar Bharat Sampatrao</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Dr. Mukesh Kumar Gupta</b>
Filing Date	:NA	<b>3)Dr. Manish Sharma</b>
(62) Divisional to Application Number	:NA	<b>4)Patil Dipak Raghunath</b>
Filing Date	:NA	<b>5)Markad Ashok Vitthalrao</b>

(57) Abstract :

INVESTIGATION OF FAKE IDENTITIES AND FAKE NEWS DETECTION ON SOCIAL MEDIA USING SOFT COMPUTING ALGORITHMS In the current scenario, online social media platforms are the most common and fastest tools for information exchange. The majority of people from all backgrounds expand their time on social networking platforms. The enormous amount of information is developed and shared worldwide through social networks. Such motives have contributed to unauthorized participants engaged in malicious acts against members of the social platform. False account formation is seen on social media as doing more damage than in any other form of cybercrime. This offense must be identified well before the consumer is told about both fake identity development. Numerous algorithms and approaches have been suggested to identify false identities, most of which use the vast amounts of raw data produced by social platforms. In this research, we proposed fake identity detection of social accounts on the Twitter dataset. Various machines learning algorithm has been used to evaluate the proposed results using NLP techniques. Recurrent Neural Network (RNN) has used for classification. The experimental analysis shows the effectiveness of the system and how they produce better accuracy than other machine learning algorithms as well as existing systems.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022212 A

(19) INDIA

(22) Date of filing of Application :18/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF TREHALOSE AND TREHALULOSE EMPLOYING A NOVEL TREHALOSE SYNTHASE FROM THERMAL SPRING METAGENOME

(51) International classification	:A61Q0019000000, C12P0019120000, A61K0008600000, A61K0031701600, C12N0009900000	(71) <b>Name of Applicant :</b> <b>1)Center of Innovative and Applied Bioprocessing</b> Address of Applicant :CENTER OF INNOVATIVE AND APPLIED BIOPROCESSING (CIAB), CIAB, SECTOR-81 (KNOWLEDGE CITY), MOHALI- 140306, INDIA Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SUDHIR PRATAP SINGH</b>
(33) Name of priority country	:NA	<b>2)NEERA AGARWAL</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 process for the production of trehalose and trehalulose employing a novel trehalose synthase from thermal spring metagenome Trehalose and trehalulose are natural sugars of low-cariogenic and low-glycemic index. These natural sugars have potential applications in food, pharmaceutical, and cosmetic industries. The present invention discloses a method for production of trehalose and trehalulose from maltose and sucrose, respectively, employing a novel trehalose synthase enzyme, TreM, identified from a thermal aquatic habitat metagenome. The novel trehalose synthase enzyme is functional in a wide range of temperature and pH. Trehalulose production has also been shown from low-cost feedstock.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022216 A

(19) INDIA

(22) Date of filing of Application :18/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM & METHOD OF CONTROLLING BRIGHTNESS ON DIGITAL DISPLAYS FOR OPTIMUM - VISIBILITY AND POWER CONSUMPTION

(51) International classification	:G09G0003200000, G09G0003340000, H04M0001220000, G01J0001420000, A61B0005047600	(71)Name of Applicant : <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea. Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)THAPLIYAL, Rohit</b>
(33) Name of priority country	:NA	<b>2)DUTTA, Sattdeepan</b>
(86) International Application No	:NA	<b>3)K, Kushagra</b>
Filing Date	:NA	<b>4)KUMAR, Arun</b>
(87) 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 subject matter refers to a system and method for adjusting brightness on digital displays for optimum visibility and power consumption. In particular, the present invention relates to a method and system of optimum brightness calculation for displays with hindrance object thereupon based on reflectance and transmittance through the hindrance surface as measured based on RNN based learning model. The method for adjusting brightness of the displayed content in a device comprising receiving, by an imaging device, a camera feed based on a visible-light. Thereafter, the light sensor measures the visible-light intensity to provide a light sensor value. Subsequently, the brightness calibration module detects presence of a translucent surface over a display screen based on capturing a plurality of visible-light parameters from the camera feed and light sensor value. Then, predicts a reflectance value of the translucent surface using an artificial neural network model based on the plurality of visible light parameters and an input brightness level associated with the display screen. Thereafter, the brightness calibration module determines a proportionality of change in the at least one of the camera feed value and the light sensor value with respect to the input brightness level and then verifies the determined reflectance through a statistical function based on the determined proportionality. The brightness calibration module determines an output brightness level for the display screen based on the verified reflectance value.

No. of Pages : 43 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022351 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : NOVEL HPLC METHODS FOR DETERMINATION OF NORETHINDRONE FROM TABLET DOSAGE FORM

(51) International classification	:A61K0009200000, A61B0018000000, A61K0031565000, C08J0003090000, G01N0001380000	(71)Name of Applicant : <b>1)Vipin Saini</b> Address of Applicant :Maharishi Markandeshwar University, Solan, HP, India Himachal Pradesh India <b>2)Prashant Bananrao Hedau</b> <b>3)Adesh Kumar Saini</b> <b>4)Reena V. Saini</b> <b>5)Prof. Amit Mittal</b> <b>6)Dr. Gurdev Lal Goyal</b> <b>7)Yogesh Midha</b> <b>8)Mr. Sunil Kumar Chaudhary</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Vipin Saini</b> <b>2)Prashant Bananrao Hedau</b> <b>3)Adesh Kumar Saini</b> <b>4)Reena V. Saini</b> <b>5)Prof. Amit Mittal</b> <b>6)Dr. Gurdev Lal Goyal</b> <b>7)Yogesh Midha</b> <b>8)Mr. Sunil Kumar Chaudhary</b>
(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	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT NOVEL HPLC METHODS FOR DETERMINATION OF NORETHINDRONE FROM TABLET DOSAGE FORM

This invention relates to Novel HPLC methods for determination of Norethindrone from tablet dosage form. Weigh accurately about 28 mg of Norethindrone working standard 5 into a 200 ml volumetric flask, add 150 ml of diluent, sonicate to dissolve and make up to the mark with diluent . Dilute 5 ml of this solution to 20 ml with diluent.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022352 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A NOVEL HPLC ASSAY METHOD FOR DETECTION OF DESMOPRESSIN ACETATE FROM TABLET DOSAGE FORM

(51) International classification	:A61K0009200000, A61K0038095000, C05B0007000000, C08G0065327000, C05G0003000000	(71)Name of Applicant : <b>1)Vipin Saini</b> Address of Applicant :Maharishi Markandeshwar University, Solan, HP, India Himachal Pradesh India <b>2)Neha Sharma</b> <b>3)Prashant Bananrao Hedau</b> <b>4)Adesh Kumar Saini</b> <b>5)Reena V. Saini</b> <b>6)Prof. Amit Mittal</b> <b>7)Dr. Gurdev Lal Goyal</b> <b>8)Yogesh Midha</b> <b>9)Mr. Sunil Kumar Chaudhary</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Vipin Saini</b> <b>2)Neha Sharma</b> <b>3)Prashant Bananrao Hedau</b> <b>4)Adesh Kumar Saini</b> <b>5)Reena V. Saini</b> <b>6)Prof. Amit Mittal</b> <b>7)Dr. Gurdev Lal Goyal</b> <b>8)Yogesh Midha</b> <b>9)Mr. Sunil Kumar Chaudhary</b>
(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	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTARCT A NOVEL HPLC ASSAY METHOD FOR DETECTION OF DESMOPRESSIN ACETATE FROM TABLET DOSAGE FORM This invention relates to A novel HPLC assay method for detection of Desmopressin Acetate from tablet dosage form. Dissolve 3.4 grams of potassium 5 dihydrogen phosphate and 2gm of Heptane 1-sulphonic acid sodium salt in 1000 ml of water. Adjust the pH to  $4.5 \pm 0.05$  with orthophosphoric acid or with sodium hydroxide, as needed.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022001 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND PROCESS FOR MAKING SPORTS DECISIONS IN RACQUET GAMES

(51) International classification :G06K0009000000,  
G06T0007000000,  
G06T0007130000,  
G06T0007200000,  
G06T0007120000

(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)Nishant Mundhra**  
Address of Applicant :C-150, 2nd Floor, Ramprastha Colony,  
Ghaziabad, Uttar Pradesh – 201011, India . Uttar Pradesh India  
**2)Dr. P. Malarvezhi**

(72)Name of Inventor :  
**1)Nishant Mundhra**  
**2)Dr. P. Malarvezhi**

(57) Abstract :

SYSTEM AND PROCESS FOR MAKING SPORTS DECISIONS IN RACQUET GAMES The present invention relates to a system and process for making sports decisions in racquet games . The system is comprised of imaging device [310], to capture the video, aligned at predefined spaces to cover court lines , wherein at least two imaging device [310] are employed for each line of the court ; C/Y mounting arrangement [300] for imaging device [310] to hold and precisely align the imaging device [310] at predefined spaces to cover court lines ; an image processing tool box for pre-processing and binary thresholding, masking, background subtraction, noise reduction, colour detection and contour detection; an image processor with image processing program, along with internet connectivity, to give the decision and store the data on a cloud server; colour detection algorithm [400] and moving object detection algorithm [500] to analyze and process the image frames; a shape and orientation detection algorithm [600] to detect the shape and orientation of moving object and a spot detection algorithm [700] to detect the falling point of the shuttle and a software programme to use different algorithms to reach at a decision. Figure 1

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022033 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 26/05/2023

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(54) Title of the invention : METHOD AND SYSTEM FOR IMPROVING ONLINE INTERACTION

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(51) International classification	:G06F0016953500, G06F0016270000, G06F0003010000, H04M0003560000, H04L0012580000	(71) <b>Name of Applicant :</b> <b>1)Rajat</b> Address of Applicant :House no 485, Ward No. 5, Mehrauli, New Delhi 110030, India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Rajat</b>
(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	

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(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR IMPROVING ONLINE INTERACTION A method and corresponding system are described for improving the immersive mature of online interaction. The interaction may be between plurality of user or a user and AI. FIG. 1

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022114 A

(19) INDIA

(22) Date of filing of Application :17/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR SUPPRESSING NOISE FROM 3D STACKED TIME DOMAIN SEISMIC CUBE

(51) International classification	:G01V0001360000, G01V0001300000, G01V0001340000, G06F0016280000, G01V0001320000	(71)Name of Applicant : <b>1)ONGC (OIL AND NATURAL GAS CORPORATION LIMITED),</b> Address of Applicant :Pandit Deendayal Upadhyaya Urja Bhawan 5, Nelson Mandela Marg, Vasant Kunj, New Delhi-110070, India Delhi India <b>2)IIT KGP (INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR)</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Tiash Ghosh</b>
(33) Name of priority country	:NA	<b>2)Aurobinda Routray</b>
(86) International Application No	:NA	<b>3)Mamata Jenamani</b>
Filing Date	:NA	<b>4)William Kumar Mohanty</b>
(87) International Publication No	: NA	<b>5)Sanjai Kumar Singh</b>
(61) Patent of Addition to Application Number	:NA	<b>6)CS Bahuguna</b>
Filing Date	:NA	<b>7)Rajeev Tandon</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

METHOD FOR SUPPRESSING NOISE FROM 3D STACKED TIME DOMAIN SEISMIC CUBE The present invention relates to a method for suppressing noise from 3D stacked time domain seismic cube, comprising the steps of: obtaining said 3D stacked seismic data cube predominantly corrupted by random noise; dividing the  $m \times n \times p$  seismic data cube into  $m' \times n' \times p'$  non-overlapping blocks; using said block obtained in previous step to obtain the observation matrix  $Y$  by reshaping into a  $m' \times n' \times p'$  matrix; obtaining the noise suppressed data  $Y X$  by solving the optimization problem; repeating the previous steps for each patch extracted from said 3D stacked seismic cube; and reconstructing the latent data cube by averaging all processed patches. Ref : Figure 2

No. of Pages : 27 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053412 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC PAPER DELIVERY SYSTEM

(51) International classification :G06Q0050280000,  
A01C0001040000,  
A47G0029120000,  
B65B0025140000,  
A63B0069400000

(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 :  
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Address of Applicant :NH-58, Dulhera Marg, Modipuram,  
Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India

(72)Name of Inventor :  
**1)Jitendra Kumar Singh Jadon**  
**2)Dr. Jayanta Kumar Mahato**  
**3)Rajkishor Singh**  
**4)Dr. Shehzad**  
**5)Ravi Kr. Bhatnagar**

(57) Abstract :

The present invention relates to an automatic paper delivery system comprising a robotic body 1 configured with the plurality of motorized wheels 2 incorporated with a communication module that connects with a user's computing unit through a server to allow the user to subscribe the newspaper delivery service, plurality of storage units 3 placed inside the body 1 and stacked with various kinds of newspapers that are to be delivered, a conveyor belt 4 positioned underneath to storage units 3 to transfer the paper to the motorized cylinder 5 through pair of rollers 6 to roll of the paper, a hollow cylindrical tube 8 positioned linearly to the cylinder 5 fabricated with band applicator 9 to bind the rolled paper together a shooting unit 10 installed at one end of the tube 8 and paired with a reciprocating hook with a hinge to drop the paper at desired location.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111022364 A

(19) INDIA

(22) Date of filing of Application :19/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ECO-FRIENDLY, FULLY BIO-DEGRADABLE PAPER PRODUCTS FOR SUSTAINABLE PACKAGING

(51) International classification	:D21H0027100000, D21H0011120000, D21C0009100000, C08L0097020000, D21C0003000000	(71) <b>Name of Applicant :</b> <b>1)Jamia Hamdard University</b> Address of Applicant :Jamia Hamdard University Mehrauli- Badarpur Road Near Batra Hospital, Hamdard Nagar New Delhi Delhi India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Aastha Bhardwaj</b>
(33) Name of priority country	:NA	<b>2)Hinna Hamid</b>
(86) International Application No	:NA	<b>3)Vasudha Sharma</b>
Filing Date	:NA	<b>4)Tanweer Alam</b>
(87) International Publication No	: NA	<b>5)Nitya Sharma</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ECO-FRIENDLY, FULLY BIO-DEGRADABLE PAPER PRODUCTS FOR SUSTAINABLE PACKAGING The invention relates to eco-friendly, fully bio-degradable paper products for sustainable packaging and methods for preparing thereof, wherein the said product comprises sugarcane bagasse (SB), corn husk (CH), chitosan, beeswax or mixture thereof. The invention further relates to the use of said paper product for food packaging, writing, printing, handicrafts and wrapping, preferably food packaging.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111047336 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD OF IN-SITU SYNTHESIS OF NITROGEN DOPED CARBON COATED SODIUM VANADIUM FLUOROPHOSPHATES (NVPF) AS HIGH PERFORMANCE CATHODE MATERIAL FOR SODIUM ION BATTERIES

(51) International classification	:H01M0010054000, H01M0004580000, H01M0004360000, H01M0004620000, H01M0004500000	(71)Name of Applicant : <b>1)INDIGENOUS ENERGY STORAGE TECHNOLOGIES PVT. LTD</b> Address of Applicant :I-10, 2ND FLOOR, TIDES BUSINESS INCUBATOR, IIT ROORKEE, Roorkee Uttarakhand India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. NAGESH KUMAR</b>
(33) Name of priority country	:NA	<b>2)DR. ASIT SAHOO</b>
(86) International Application No	:NA	<b>3)MR. AKASH SONI</b>
Filing Date	:NA	<b>4)DR. YOGESH KUMAR SHARMA</b>
(87) 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 method of in-situ synthesis of nitrogen doped carbon coated Sodium Vanadium Fluorophosphates (N-doped carbon coated NVPF) material. The material provided is high yield and high performance cathode material for Sodium ion batteries. The invention provides the crystal structure of NVPF and their electrochemical performance for application in Na-ion energy storage devices.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053280 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR HUMIDITY CONTROL AND DEW ELIMINATION IN A REFRIGERATOR

(51) International classification	:F25D0021040000, F25D0011020000, F25D0017060000, F25D0017040000, G05D0022020000	(71) <b>Name of Applicant :</b> <b>1)LG ELECTRONICS INC.</b> Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PANDEY Badrish</b>
(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 system for humidity control and dew condensation elimination in a refrigerator (100) is provided. The system includes a plurality of sensors to detect formation of dew around a freezer compartment (104) and a refrigeration compartment (106) and between the freezer compartment (104) and the refrigeration compartment (106) of the refrigerator (100) and a hot line (108) provided between the freezer compartment (104) and the refrigeration compartment (106) for removing the dew formation between the freezer compartment (104) and the refrigeration compartment Fig.1 (106). Further, upon receiving an input from the plurality of sensors, the refrigerant flow is redirected into a plurality of refrigeration cycles by a valve assembly to control the humidity and eliminate dew formation in the refrigerator.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053306 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING A SIMILARITY MATRIX/SCORE BETWEEN INTENDED REQUIREMENTS CONTEXT DATA AND SOURCE CODE CONTEXT DATA

(51) International classification	:G06K0009620000, G06N0003040000, G06F0016280000, G06F0016330000, G06F0016335000	(71)Name of Applicant : <b>1)JPMorgan Chase Bank, N.A.</b> Address of Applicant :383 Madison Avenue, New York, NY 10179 United States of America U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sreemannarayana BALINENI</b>
(33) Name of priority country	:NA	<b>2)Pushendra RATHORE</b>
(86) International Application No	:NA	<b>3)Shaily BHAGWANI</b>
Filing Date	:NA	<b>4)Priyatam NARAVAJHULA</b>
(87) International Publication No	: NA	<b>5)Krishnaprashanth DHARANIKOTA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Various methods, apparatuses/systems, and media for developing an application are disclosed. A processor converts requirements data into a first semantic context data, the requirements data describing intended tasks required for developing an application; converts the first semantic context data into a first semantic context vector; accesses a database that stores source code corresponding to implementation of the intended tasks required for developing the application; converts the source code into a second semantic context data; converts the second semantic context data into a second semantic context vector; compares the first semantic context vector and the second semantic context vector; automatically generates, in response to comparing, a similarity score that indicates how much the source code and the requirements data are in line with each other; and executes development of the application when it is determined that the similarity score is equal to or more than a predetermined threshold value.

No. of Pages : 44 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053308 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : POLYURETHANE IMIDE MEMBRANE AND ITS PREPARATION THEREOF

(51) International classification	:C08G0018480000, H04R0001440000, B32B0027320000, B32B0007040000, C09D0011102000	(71)Name of Applicant : <b>1)CHAIRMAN, DEFENCE RESEARCH &amp; DEVELOPMENT ORGANISATION</b> Address of Applicant :Ministry of Defence, Government of India, DRDO Bhavan, Rajaji Marg, DHQ P.O. New Delhi- 110011, (India) Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MEENA, Mahipal</b>
(33) Name of priority country	:NA	<b>2)KERKETTA, Anjlina</b>
(86) International Application No	:NA	<b>3)JACOB, Josemon</b>
Filing Date	:NA	
(87) 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 polyurethane imide membrane. The present disclosure also relates to a process for preparation of polyurethane imide membrane. Further, the present disclosure provides a breathable and waterproof non-porous substrate. The polyurethane imide membrane of the present disclosure has substantial waterproofness as measured by hydrostatic head column without sacrificing its breathability.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053413 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MULTIPURPOSE KITCHEN DEVICE

(51) International classification	:A47J0043070000, C11B0001040000, G07F0013100000, A47C0001024000, A23L0002460000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Jitendra Kumar Singh Jadon</b>
(33) Name of priority country	:NA	<b>2)Jayanta Kumar Mahato</b>
(86) International Application No	:NA	<b>3)Rajkishor Singh</b>
Filing Date	:NA	<b>4)Dr. Shehzad</b>
(87) International Publication No	: NA	<b>5)Ravi Kr. Bhatnagar</b>
(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 multipurpose kitchen device, comprising a primary 1 and secondary rods 2 connected with each other and arranged in a parallel manner and individually connected to a set of sieve like cups 3,4, wherein both of the cups 3,4 align with each other for equipping raw ingredients utilized for preparation of various type of beverages by dipping inside water, a motorized hinge 5 attach on the primary rod 1 that actuates to lift the primary rod 1 up to a threshold height by pressing of a first button 6 installed on the primary rod 1 by a user and a second button 7 mapped on the primary rod 1 that is pressed for rotating the uplifted cup 3 up to an angle of 180 degrees, in order to squeezing of fruits placed between both of the cups 3, 4 for removing out pulps.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053414 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : LID OPENING DEVICE

(51) International classification :H01M0002020000,  
B65D0081200000,  
B67B0007180000,  
D06F0043000000,  
G01L0009000000

(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 :  
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Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India

(72)Name of Inventor :  
**1)Dr. Ajay Rana**  
**2)Dr. Aniket Kumar**  
**3)Dr. Shiva Sharma**  
**4)Shamshad Husain**  
**5)Rajesh Pandey**

(57) Abstract :

The present invention relates to lid opening device, comprising a portable body 1 developed in a manner to be positioned on a lid portion of various containers 3, an artificial intelligence enabled image capturing module 2 installed on the body 1 for detecting the shape of the containers 3, a material sensor 4 mapped on the body 1 for detecting material type of a threaded lid, a primary 5 and secondary telescopic claws 6 attach with the body 1, wherein the primary claw 5 extend to grip the container 3 and the secondary claw 6 extends up to grab and rotate threaded lid a pressure sensor 7 mapped on the secondary claw 6 to determine the pressure applied to rotating the threaded lid, a telescopic plucker 9 positioned on the body 1 in order to pops out the non-threaded lids out of the container 3 in an efficient manner.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053415 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SPEED MONITORING AND GOVERNING SYSTEM FOR VEHICLES

(51) International classification	:G08G0001080000, G08G0001010000, B60W0030180000, G08G0001052000, B62J0045400000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Shamshad Husain</b>
(87) International Publication No	: NA	<b>5)Rajesh Pandey</b>
(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 speed monitoring and governing system for vehicles comprising, an image capturing unit 2 installed over the vehicle 1 to determines traffic flow condition and analysis traffic lights situation, an ultrasonic sensor 3 installed on the vehicle 1 to measures distance between the traffic pole and vehicle 1, an electronic speed sensing unit 4 positioned to each wheel 5 that measures current speed of the vehicle 1, wherein upon detecting the vehicle is over speed the microcontroller terminate supply of fuel from engine, a solenoid pin 7 positioned at handle bar 8 of the vehicle 1, to restrict the user from further increasing speed of the vehicle 1, and a voice identification module 9 mounted over handle bar 8 that allows the user to provide reason for riding the vehicle 1 in wrong lane, then microcontroller validates the reason maintains fuel supply for the engine.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053416 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : KEYBOARD MAINTENANCE SYSTEM

(51) International classification	:G06F0003020000, H01H0013705000, H01H0013807000, G06F0003010000, G10C0003120000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Vijay Maheshwari</b>
(86) International Application No	:NA	<b>3)Dr.Nishant Kumar Pathak</b>
Filing Date	:NA	<b>4)Kuldeep Chauhan</b>
(87) International Publication No	: NA	<b>5)Dr. Tarun Kr. Sharma</b>
(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 keyboard maintenance system, comprising an artificial intelligence enabled image capturing module 2 mounted on a keyboard 1 for constantly recording hand movements of a user, multiple pressure sensors 3 mapped on key 4 portions of the keyboard 1 for detecting pressure applied by the user while pressing the keys 4, if keys 4 are forceful pressed, then microcontroller selectively directs a display unit 5 mapped on keyboard 1 to generate alerts and/or regulate power supply to each keys 4 to turn off to restrict the user from further forceful pressing of the keys 4, a foam like structure 7 embodied around plunger portion 8 of each of the key 4 that aids in reducing the undesirable noise that is often produced while pressing of the keys 4, a LED 6 positioned on each key 4 to illuminate in case keys are detected to be broken.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053349 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A MULTI PURPOSE AUTOMATIC CHARGER AND COMMUNICATION SIGNAL BLOCKER IN VEHICLES

(51) International classification	:H04W0004900000, G07C0005000000, H04W0004020000, G07C0005080000, G08G0001160000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Pradeep Nagaraj</b>
(33) Name of priority country	:NA	<b>2)Mr. Nikhil Kumar</b>
(86) International Application No	:NA	<b>3)Mr. Vinod Joseph</b>
Filing Date	:NA	
(87) 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 robust and effective solution to enable safety of vehicle operator and one or more passengers by providing an intelligent component/system in the vehicle to block communication signals to and from communication devices with respect to the vehicle location, such as for risky or non-risky areas by predicting an accident by knowing the critical zones. The system further enables the vehicle to identify one or more critical road signals and driving conditions through various sensors and accordingly block or unblock the communication signal as per real time situations such as traffic, pedestrian crossing, emergency brake activation time, accident prone zone, and the like.

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



(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING FUSE LIFE OF ONE OR MORE FUSES

(51) International classification	:G01R0031392000, H01M0010480000, H01H0085200000, H01H0085055000, H02H0003093000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)Mr. Mohit Shukla</b>
(32) Priority Date	:NA	<b>2)Mr. Sourav Shah</b>
(33) Name of priority country	:NA	<b>3)Mr. Martin Hagborg</b>
(86) International Application No	:NA	<b>4)Mr. Markus Borst</b>
Filing Date	:NA	
(87) 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 managing fuse life of one or more fuses is disclosed. System measures current of batteries in vehicle. Further, system calculates current flowing through each of fuses from the batteries, based on High Voltage (HV) topology of cables. Furthermore, system estimates State of Health (SOH) of the fuses, based on Time-Current Characteristic (TCC) curve, repetitive overload curve, operational conditions and environmental conditions of each of fuses. Thereafter, system determines, if estimated SOH of the fuses is within at least one of first pre-defined threshold and second pre-defined threshold. Thereafter, system limits dynamically, when SOH of fuses is within first pre-defined threshold, power to each of fuse. Dynamically limiting power to fuses eliminates current peaks to slow down fuse ageing. Further, system outputs, when SOH of a fuse is within second pre-defined threshold, indication to replace fuse during service visit to avoid field failure of the fuse.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053351 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : OMNI SHOPPING CART

(51) International classification	:B62B0003140000, G06Q0030060000, G06Q0020200000, G07G0001000000, B62B0005000000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SINGLA, Babita</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Shalender</b>
(86) International Application No	:NA	<b>3)SHARMA, Sandhir</b>
Filing Date	:NA	
(87) 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 an omni shopping cart (100), which includes; a basket (102) to hold one or more products. A handle (104) coupled to the basket and a user interactive device (114) attached to the handle. The basket is rested on a base (106) and a heavy-duty slab (110) is provided to hold heavy weighing products. An inbuilt weighing scale (160), with a display (116) to weigh loose products. A product identification system to identify products in the basket and a navigation unit (154) to provide information to locate the desired products. A payment module (156) which generates cost bill, authorize payment and confirm payment.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053352 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR CUSTOMIZABLE EXTERIOR DESIGN SURFACE OF A VEHICLE

(51) International classification	:H04M0001020000, E02F0009260000, B29K0307040000, B62D0029040000, F21S0043200000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ms. Mubeena Abdullah</b>
(33) Name of priority country	:NA	<b>2)Mr. Rakesh Ramesh Raja</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 customizable exterior design surface of a vehicle is disclosed. The system receives first input from user via electronic device, corresponding to part of exterior design surface of vehicle which is to be customized and receives second input from user, corresponding to displayed design or new design, based on received first input corresponding to part of exterior design surface. System locates plurality of magnets, as boundary, on airbag which is deployed below exterior design surface, and releases air from pneumatic piston compressor into multiple entries of airbag. System determines pressure of air using solenoid valve during release of air via multiple entries of airbag and limits pressure of air based on determined pressure of air for customizing exterior design surface. System optimizes part of exterior design surface of vehicle, upon limiting pressure of air in airbag deployed under exterior design surface of vehicle.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053353 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : WHEELCHAIR MOBILITY SYSTEM FOR HANDICAPPED HUMANS

(51) International classification	:G06F0003010000, G06F0003030000, G06K0009620000, A61G0005100000, A61G0005040000	(71)Name of Applicant : <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)LILHORE, Umesh Kumar</b>
(32) Priority Date	:NA	<b>2)SIMAIYA, Sarita</b>
(33) Name of priority country	:NA	<b>3)AHUJA, Sachin</b>
(86) International Application No	:NA	<b>4)KHURANA, Meenu</b>
Filing Date	:NA	<b>5)KAUR, Amandeep</b>
(87) International Publication No	: NA	<b>6)SANDHU, Jasminder</b>
(61) Patent of Addition to Application Number	:NA	<b>7)MANHAR, Advin</b>
Filing Date	:NA	<b>8)AHMED, Mohammed Bakhtawar</b>
(62) Divisional to Application Number	:NA	<b>9)HARNAL, Shilpi</b>
Filing Date	:NA	<b>10)SNEHI, Jyoti</b>

(57) Abstract :

The present disclosure discloses an automatically controllable smart wheel chair device comprising a frame forming a body of the device. It includes a voice capturing unit configured to capture a set of acoustic signals generated by a user; an image capturing device configured to capture a set of images of eyes of the user; and a hand gesturing capturing glove configured to monitor hand gestures of the user. It also includes a processing unit configured to generate a set of digital signatures, and determine any or a combination of a voice command of the user, an eye movement of the user, and hand gesture of the user. Further, it generate a set of control signals that correspond to one or more driving instructions associated with wheel chair device. Further, it also includes a plurality of electrical motors configured with wheels of the device, and correspondingly operate the device.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053362 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SINGLE DC SOURCE BASED THREE PHASE HIGH RESOLUTION MULTILEVEL INVERTER SYSTEM AND ITS METHOD THEREOF

(51) International classification	:H02M0007487000, H02M0007483000, H02M0001120000, H02M0007490000, H02M0001000000	(71)Name of Applicant : <b>1)INDIAN INSTITUTE OF TECHNOLOGY DELHI</b> Address of Applicant :Hauz Khas, New Delhi-110016, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)CHATTOPADHYAY, Sumit Kumar</b> <b>2)TAK, Neha</b>
(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 :

The present invention relates to a system comprising a single dc source based three phase high resolution multilevel inverter and its method of working thereof. The topology of the system is divided into two modules i.e., Main Module (102) including Main bridge (VMB) (106), main LDN (VML (108)) and main bridge (106) consist of TNPC (116); Auxiliary Module (104) including 10 auxiliary bridge (VAB) (110) and auxiliary LDN (VAL (112)). Auxiliary modules (104) are used to increase output voltage resolution. The main module (102) comprises of high voltage cells sharing most of the fundamental component of the ac output voltage and auxiliary module (104) comprises low voltage cells responsible for maintaining power quality. The present invention topology provides high power quality, reliability and efficiency due to relatively less number of components 15 than other multilevel inverter (MLI) topologies.

No. of Pages : 29 No. of Claims : 5

(54) Title of the invention : WIND TURBINE

(51) International classification

:F03D0009250000,  
F03D0003020000,  
F03D0003040000,  
A61B0017160000,  
F03D0013200000

(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)GATTANI, Dr. Manoj Kumar**Address of Applicant :Poornima College of Engineering,  
Jaipur, Rajasthan, India Rajasthan India**2)BUNDELE, Dr. Mahesh****3)DHEMLA, Pankaj****4)DADHICH, Dr. Pran Nath****5)JAIN, Dr. Narayan Lal****6)SATANKAR, Dr. Rajkumar****7)KAPOOR, Ashwani****8)MISHRA, Smrutirekha****9)RAJPUT, Himanshu****10)GUPTA, Satya Vart**

(72)Name of Inventor :

**1)GATTANI, Dr. Manoj Kumar****2)BUNDELE, Dr. Mahesh****3)DHEMLA, Pankaj****4)DADHICH, Dr. Pran Nath****5)JAIN, Dr. Narayan Lal****6)SATANKAR, Dr. Rajkumar****7)KAPOOR, Ashwani****8)MISHRA, Smrutirekha****9)RAJPUT, Himanshu****10)GUPTA, Satya Vart**

(57) Abstract :

The present invention provides a wind turbine (100) capable of generating power. The said wind turbine device (100) includes a base (10). The turbine (100) further includes a turbine shaft (20) mounted on the base (10) along a vertical axis of the shaft (20). The shaft (20) being configured for rotation in response to rotation by harvested wind energy in the said turbine (100). The turbine (100) further includes divergent blades (30) configured around the shaft (20), including a lower portion (30a) and an upper portion (20b). The blades (30) being adapted to harvest wind for driving the shaft (20). A width of the upper portion (30b) is more than a width of the lower portion, thereby ensuring a divergent shape of the blades (30). The turbine (100) further includes a generator (40) operably connected to the shaft (20). The generator (40) is installed to generate an electrical energy.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053392 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : WOOD MOISTURE MEASURING AND CUTTING DEVICE

(51) International classification	:G01N0033100000, G01F0023296000, B25J0019020000, F26B0025220000, B26D0005240000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. R.K. Jain</b>
Filing Date	:NA	<b>4)Mohd Ahamad</b>
(87) International Publication No	: NA	<b>5)Dr. Jyoti Sharma</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A wood moisture measuring and cutting device, comprising a telescopic rod 1 having a proximal 2 and distal end 3, a handle 4 fabricated on proximal end 2 to grip rod 1, an ultrasonic sensor 5 mounted on distal end 3 to measure distance between rod 1 and object, a gripper unit 6 adhered to grab object firmly, a moisture sensor 7 installed on gripper 6 to measure moisture of gripped branch, a screen 8 mounted on rod 1 to display measured parameters, an image capturing unit 9 mounted on the rod 1 to analyses position of user with respect to gripped branch, a capacitor sensor 11 installed on gripper to measure water content, a cutting unit 12 configuring circular blade 13 and motor installed at inner periphery of gripper to disconnect the branch.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053430 A

(19) INDIA

(22) Date of filing of Application :20/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND ENERGY METER FOR DETECTING ABNORMAL MAGNETIC FIELDS

(51) International classification	:G01R0022060000, G01R0035040000, H01F0006000000, G01R0011240000, G01R0011040000	(71)Name of Applicant : <b>1)SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED</b> Address of Applicant :C-56 Mayapuri Industrial Area, Phase II, New Delhi – 110064, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)BOBBADI, Satyanarayana</b>
(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 :

The present invention discloses a method and an energy meter for detecting abnormal magnetic fields by employing the shunt splitting principle to provide tamper proof and precision metering. In particular, the present invention aids with detecting magnetic field with an existing component (shunt which is used for current sensing) of an electric meter. The energy meter for detecting abnormal magnetic fields comprises: a first analogue-to-digital converter (ADC<sub>1</sub>); a second analogue-to-digital converter (ADC<sub>2</sub>); a primary shunt (S<sub>1</sub>); and a secondary shunt (S<sub>2</sub>). The primary shunt (S<sub>1</sub>) is connected across the first analogue-to-digital converter (ADC<sub>1</sub>), and the secondary shunt (S<sub>2</sub>) is connected across the second analogue-to-digital converter (ADC<sub>2</sub>).

No. of Pages : 22 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053486 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR RADIO ACCESS CHANNEL (RACH) OPERATION

(51) International classification :H04W0074080000,  
H04W0074000000,  
H04W0052260000,  
H04W0048200000,  
G02B0015173000

(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

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Gurgaon 122002, Haryana, India Haryana India

(72)Name of Inventor :  
**1)Nitin Kumar**  
**2)Manish Jamwal**  
**3)Rishi Nandwana**  
**4)Satyanshu Srivastava**

(57) Abstract :

The present disclosure provides a method and a system (100) for radio access channel (RACH) operation. The method of transmitting a Random-Access Channel (RACH) request over a channel by a user equipment (UE) (110) in a cell, comprises transmitting a subsequent RACH request by the UE (110) in the cell in case of failure to receive a Random-Access Response (RAR) by the UE (110) during an earlier RACH request within a predefined time period. The earlier RACH request is associated with an earlier power and the subsequent RACH request is associated with a subsequent power. The subsequent power is the sum of the earlier power and a predefined delta power, where the predefined delta power is based on Reference Signal Received Power (RSRP) measurement of the UE within the cell.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053487 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DETECTING SLEEPING CELLS OF RADIO UNIT IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04W0088080000,  
H04W0076300000,  
H04L0027260000,  
H04B0010257500,  
H04W0052020000

(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

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Gurgaon 122002, Haryana, India Haryana India

(72)Name of Inventor :  
**1)Nitin Kumar**  
**2)Manish Jamwal**  
**3)Rishi Nandwana**  
**4)Gurpreet Singh**

(57) Abstract :

The present disclosure provides detection of sleeping cells in a Low-PHY (lower physical) layer of an Open Radio Unit (O-RU) (200), where the O-RU detects such sleeping cells. The O-RU demodulates received digital In-phase and Quadrature-phase (IQ) samples transmitted from an Open Distributed Unit (O-DU) (100) via a user plane from a fronthaul interface (302). The received digital IQ samples include a control data and a user data and the control data corresponds to a base data. Further, the O-RU stores the demodulated digital IQ samples in a Yang model with IQ sample receiving time details, monitors the digital IQ samples for a defined time period and compare the digital IQ samples with the base data and captures a change in the base data as a count of the base data is the same for the defined time period or not.

No. of Pages : 32 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053510 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR PREPARATION OF CARBON BLACK AND NANO-SILICA FROM RICE HUSK

(51) International classification	:C08K0003040000, C10G0001100000, C08K0003360000, G06Q0030060000, C09C0001480000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vitrag Vishesh Garg</b>
(33) Name of priority country	:NA	<b>2)Arpita Bhattacharya</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 method for preparation of carbon black and nano-silica from rice husk obtained from agricultural waste. Moreover, the present invention utilizes acid-hydrolysis to separate carbon and silica from rice husk simultaneously and performs synthesis to make nano-silica and carbon black out of it. Moreover, the use of agricultural waste as raw material will not only benefit environment as a deduction of garbage dump but also benefit economy as the final products made (nano-silica and carbon black) will cost-effective and efficient for further use.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053511 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : HIMACHALI PAHARI COW COLOSTRUM-BASED SOAP, AND PREPARATION METHOD THEREOF

(51) International classification	:C11D0009380000, C11D0009020000, C11D0009260000, C11D0003480000, C11D0009000000	(71)Name of Applicant : <b>1)Amity University</b> Address of Applicant :Amity University, Address: E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Rahul Mehra</b>
(33) Name of priority country	:NA	<b>2)Harish Kumar</b>
(86) International Application No	:NA	<b>3)Anuradha Bhardwaj</b>
Filing Date	:NA	<b>4)Naveen Kumar</b>
(87) 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 field of cleaning products and specifically relates to a Himachali Pahari cow colostrum-based soap. Assorted bovine colostrum samples from Himachali Pahari cow within 0-72 hours, from high altitude (901-2200-meter ASL) of the Himalayan regions are utilised. Soap is prepared by adopting a cold process saponification reaction between a certain percentage of whole cow colostrum with olive oil (55 %), coconut oil (45 %), castor oil (5 %) and NaOH which offers the manageable batch procedure. The soap prepared with the claimed formulation is high in the total fatty matter i.e., 75.15 %, nil in free caustic alkali, 9.86 % moisture, 0.27 % insoluble matter and pH is almost similar as of human skin i.e., 6.90. Bovine colostrum is a feasible techno-functional, eco-friendly, and cost-effective alternative to certain other raw materials, and also provides an efficient way to utilise leftover colostrum after calf feeding.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018567 A

(19) INDIA

(22) Date of filing of Application :22/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MACHINE LEARNING TO DETERMINE DOMAIN REPUTATION

(51) International classification	:G06N0020000000, H04L0029080000, G06N0007000000, H04L0012240000, G06F0001320600	(71) <b>Name of Applicant :</b> <b>1)Zscaler, Inc.</b> Address of Applicant :120 Holger Way, San Jose, CA 95134 USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Loc Bui</b>
(33) Name of priority country	:NA	<b>2)Dianhuan Lin</b>
(86) International Application No	:NA	<b>3)Changsha Ma</b>
Filing Date	:NA	<b>4)Rex Shang</b>
(87) International Publication No	: NA	<b>5)Howie Xu</b>
(61) Patent of Addition to Application	:NA	<b>6)Bryan Lee</b>
Number	:NA	<b>7)Martin Walter</b>
Filing Date	:NA	<b>8)Deepen Desai</b>
(62) Divisional to Application Number	:NA	<b>9)Nirmal Singh</b>
Filing Date	:NA	<b>10)Narinder Paul</b>
		<b>11)Shashank Gupta</b>

(57) Abstract :

ABSTRACT OF THE DISCLOSURE MACHINE LEARNING TO DETERMINE DOMAIN REPUTATION Systems and methods (400) include receiving (402) a domain for a determination of a likelihood the domain is malicious or benign; obtaining (404) data associated with the domain including log data from a cloud-based system (100) that performs monitoring of a plurality of users (102); analyzing the domain with a plurality of components to assess the likelihood, wherein at least one of the plurality of components is a trained machine learning model; and combining (406) results of the plurality of components to predict the likelihood the domain is malicious or benign.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111020982 A

(19) INDIA

(22) Date of filing of Application :09/05/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PRIVATE SERVICE EDGE NODES IN A CLOUD-BASED SYSTEM FOR PRIVATE APPLICATION ACCESS

(51) International classification	:H04L0029080000, H04L0029120000, H04L0029060000, H04L0012825000, H04W0084180000	(71) <b>Name of Applicant :</b> <b>1)Zscaler, Inc.</b> Address of Applicant :120 Holger Way, San Jose, CA 95134, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)John A. Chanak</b>
(33) Name of priority country	:NA	<b>2)Ale Mansoor</b>
(86) International Application No	:NA	<b>3)Maxim Perepelitsyn</b>
Filing Date	:NA	<b>4)Deepak Khungar</b>
(87) International Publication No	: NA	<b>5)William Fehring</b>
(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 PRIVATE SERVICE EDGE NODES IN A CLOUD-BASED SYSTEM FOR PRIVATE APPLICATION ACCESS Systems and methods include, connecting to a first service edge node (150) in a cloud-based system (100) and obtaining one or more addresses each for one or more service edge nodes (150, 150P) in the cloud-based system, wherein the one or more service edge nodes (150, 150P) include public service edge nodes (150P) and private service edge nodes (150); connecting to a second service edge node of the one or more service edge nodes (150, 150P) using the corresponding address; providing a request for an application (404) to the second service edge node; and responsive to policy and accessibility determined via the cloud-based system (100), receiving access to the application via a connector (400) adjacent to the application.

No. of Pages : 64 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053746 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN INTRAVENOUS CATHETER DEVICE WITH NEUTRAL FLUID DISPLACEMENT

(51) International classification :A61M0025060000,  
A61M0025000000,  
A61B0005154000,  
A61M0039060000,  
A61M0039220000

(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)GUPTA, Neeraj**

Address of Applicant :Flat 601, Tower A5, The World Spa  
East Sector 30 Gurgaon, Haryana-122001, India Haryana India

(72)Name of Inventor :

**1)GUPTA, Neeraj**

(57) Abstract :

The invention relates to an intravenous catheter device (200) structured with a catheter hub (202) having a proximal end P and a distal end D. It includes a valve actuator member (258) having an axial bore (240) adapted to be disposed inside a co-axial recess of the catheter hub 5 (202), the valve actuator member (258) being defined by a cylindrical portion and a curved portion disposed at one end of the cylindrical portion, wherein the valve actuator member (258) is being displaced axially in a direction towards the distal end D of the catheter hub (202) thereby opening the valve member (242) to form an auxiliary fluid pathway in communication with a coaxial recess of the catheter hub (202) for a fluid flow from the proximal end P of the catheter hub 10 (202) to the distal end D of the catheter hub (202). The intravenous catheter device (200) is also provided with a safety device fixedly connected to the distal end of the catheter device to releasably connected to the catheter hub (202) of the intravenous catheter device (200), a flashback chamber (232) adapted to be disposed at the proximal end P of the catheter hub (202), wherein a blood flow into the flashback chamber (232) confirms puncturing of the vein by the 15 needle (216), a wing (360) structured on both sides of the catheter tube (238) to facilitates the introduction of the catheter into a patient's vasculature characterized in that the valve closure member (292) is configured to automatically close the valve member (242) by actuating the safety device to allow neutral displacement of fluid for preventing blood flow from the punctured vein of the patient from the distal end D of the catheter hub (202) to the proximal end P of the 20 catheter hub (202), when a luer lock member (290) abutting the valve actuator member (258) is removed.

No. of Pages : 33 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053393 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : OBJECT PICKING DEVICE FOR VISUALLY DEFICIENT

(51) International classification	:G09B0021000000, A61B0017000000, A61F0009080000, A47G0021040000, B25J0019020000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Nishant Kumar Pathak</b>
(86) International Application No	:NA	<b>3)Vijay Maheshwari</b>
Filing Date	:NA	<b>4)Dr. Tarun Kr. Sharma</b>
(87) International Publication No	: NA	<b>5)Nitin Kumar</b>
(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 an object picking device for visually deficient, comprising portable stick 1 to make connection between user and object, a handle 2 attached to proximal end of stick 1 providing holding provision, a biometric sensor 3 on handle 2 for identifying user, a microcontroller with a database to analyze and save input provided by user, an AI based imaging unit 5 installed on distal end to capture images of the object, a display unit 4 attached to telescopic rod 15 to show textual information about object, a braille module 6 arranged at proximal end to provide help to visually impaired user, a gripper 7 attached to distal end for reaching out to the object, a push button 11 attached to handle 2 to activate braille module 6 and an electromagnetic module 14 along with adhesive strip attached to the distal end to hold the object firmly.

No. of Pages : 17 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053394 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : EXERCISE ASSISTIVE DEVICE

(51) International classification	:A63B0021072000, G06F0003048800, A61M0005140000, B25J0019020000, G03B0021580000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering and Technology (Deemed to be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Nishant Kumar Pathak</b>
(86) International Application No	:NA	<b>3)Vijay Maheshwari</b>
Filing Date	:NA	<b>4)Dr. Tarun Kr. Sharma</b>
(87) International Publication No	: NA	<b>5)Nitin Kumar</b>
(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 an exercise assistive device, comprising a pair of supporting frames 1 configured with a touch interactive screen 2 mounted, a pole 3 is installed on the frame to hold screen 2, a pair of hollow chambers 4 placed in proximity to the frame 1, an artificial intelligence enabled imaging unit 6 mounted over the pole 3 to capture images, multiple number of motorized rollers 7 placed between the frames 1 to perform cycling, a rod 8 placed inside the chambers 4 for weight lifting and dumbbell sets, a motorized clip 9 in association with weight sensor 10 placed on the rods 8 to hang object as weight, an electromagnets 11 are installed at another end of the rod 8 in order adjust the length of the rod 8.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053395 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE STORAGE DEVICE FOR ADVERSE CLIMATIC CONDITIONS

(51) International classification	:A45F0003040000, A45C0013020000, H04W0084180000, G05D0023190000, B65G0001133000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Rajesh Pandey</b>
(86) International Application No	:NA	<b>3)Dr. Nidhi Tyagi</b>
Filing Date	:NA	<b>4)Anuj Kumar</b>
(87) International Publication No	: NA	<b>5)Kuldeep Chauhan</b>
(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 an adaptive storage device for adverse climatic conditions, comprising a backpack 1 configured with a compartment 2 to store fragile items, a pair of straps 3 having rotors 4 attached to the compartment 2 to position the bag properly on the back of the user, a voice recognition module 5 fixed on the straps 3 to arrange the length of the straps 3, a chain drive arrangement 6 with a flap 7 installed on the primary side 8 of the compartment 2 to prevent user from splashes on extending, plurality of U-shaped bands fabricated with water repellent coating 9 having first and second portion 10,11 connected to the chain drive arrangement 6 and multiple hinges 12 respectively such that on deployment of bands attached coating 9 formed canopy structure working as shade to prevent user from unfavorable weather condition.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053396 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATED LANE MARKING DEVICE

(51) International classification	:G06K0009000000, B60R0001000000, B05B0013000000, E01C0023160000, G01C0015020000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. R.K. Jain</b>
Filing Date	:NA	<b>4)Mohd Ahamad</b>
(87) International Publication No	: NA	<b>5)Dr. Jyoti Sharma</b>
(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 an automated lane marking device, comprising a vehicle 1 having multiple chamber 2 installed with valve 3 at its base to store different shades of paint, a sliding rack 4 along with a nozzle 6 configured with a ball and socket joint installed below the chambers 2 to dispense stored color, an ultrasonic sensor 7 fixed under the vehicle 1 to measure width of the road, a touch interactive screen 11 installed inside the vehicle 1 to suggest options regarding lane marks, a projection unit 8 interlinked with the screen installed at the end of the vehicle 1 and facing downwards to project selected lane mark, an image capturing unit 10 installed with nozzle 6 to observe projected lane mark, a telescopic brushing unit 9 arranged to even the dispensed paint on the mark.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018998 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A DRAINAGE GRATING ASSEMBLY

(51) International classification	:C02F0001280000, C02F0001000000, E03F0005060000, A47J0043250000, E03F0005040000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY HARYANA, AMITY EDUCATION VALLEY GURUGRAM, MANESAR, PANCHGAON,HARYANA -122413 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Tanuj Joshi</b>
(33) Name of priority country	:NA	<b>2)Ravikant Sharma</b>
(86) International Application No	:NA	<b>3)Shashi Kant</b>
Filing Date	:NA	
(87) 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 DRAINAGE GRATING ASSEMBLY The present invention relates to a drainage grating assembly. The assembly is used for drainage water filtration. Drainage grating assembly consists of movable plates with different holes sizes, a longitudinal support system, a device holder and a perforated porous outer cylindrical structure. Usage of this device has vast area ranging from household kitchen to bathroom, industrial waste to sewage filtration processes. Accompanied Drawing [FIG. 1] Dated this 21st day of April, 2021 AMITY UNIVERSITY Name of Applicant Signature: Name: R. Adm. R.C. Kochhar (Retd)

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111018999 A

(19) INDIA

(22) Date of filing of Application :24/04/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR REALISTIC ASSESSMENT OF THE CONSTRUCTION, RENOVATION & DEMOLITION WASTE USING GREEN COMPUTING

(51) International classification	:G06Q0010060000, B09B0003000000, C04B0018160000, G06Q0050060000, G06Q0010000000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :E-27, Defence Colony, New Delhi – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Deepak Motwani</b>
(33) Name of priority country	:NA	<b>2)Vimal Kumar Gupta</b>
(86) International Application No	:NA	<b>3)Pankaj Kumar Mishra</b>
Filing Date	:NA	<b>4)Upendra Tyagi</b>
(87) 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 FOR REALISTIC ASSESSMENT OF THE CONSTRUCTION, RENOVATION & DEMOLITION WASTE USING GREEN COMPUTING The present invention relates to a realistic assessment of the construction, renovation & demolition waste using green computing. The present invention is focused on the realistic assessment of CRD waste possesses, the outcome includes, but not limited to, regulation of the CRD waste right from source to useful disposal. CRD waste can be treated as a usable resource in the construction industry could significantly enhance the building material supply chain. The extension of application of Recycling material from C&D waste will substantially reduce the gap between annual production of C & D waste and annual consumption of C & D waste in construction industry. Recycling of aggregate material from C&D waste may reduce the demand-supply gap in the housing sector. Accompanied Drawing [FIG. 1] Dated this 22nd day of April, 2022 AMITY UNIVERSITY Name of Applicant Signature: Name: Prof. Dr. Kamal Kant Dwivedi

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054031 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE TEACHING SYSTEM

(51) International classification	:A61B0005000000, G10L0015220000, G10L0015160000, G06F0003010000, G10L0015260000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Shail Dhaka</b>
(33) Name of priority country	:NA	<b>2)Uma Sharma</b>
(86) International Application No	:NA	<b>3)Dr. Nandita Tripathi</b>
Filing Date	:NA	<b>4)Sunil Kumar Gupta</b>
(87) International Publication No	: NA	<b>5)Rahul Tomer</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adaptive teaching system which includes an image capturing module 1 incorporated over computing unit 2, for capturing multiple images, a microcontroller paired to module 1 and is linked to the user interface installed in the computing unit 2, to analyze the expressions and body movement of user by using neural network, a speech recognition 3 module attached with computing unit 2 and works in synchronization with microcontroller, to analyze the voice command given by the user by analyzing speech recognition protocol, a laser pointing unit 4 amalgamated over top bezel of computing unit 2, to projects light over the keys of computing unit 2 which are to be pressed by user to initiate required command, a database paired with the user interface, for providing information about the disturbing student to user, a projection unit 5 installed over computing unit 2 for projecting procedure to initiate a command.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054032 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : NASAL SHAPE RECONFIGURATION DEVICE

(51) International classification	:G01N0033000000, A61B0005000000, G02C0005120000, A61B0001060000, A61B0006000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Shiva Sharma</b>
(33) Name of priority country	:NA	<b>2)Dr. Manisha Rastogi</b>
(86) International Application No	:NA	<b>3)Dr. Sudheesh Shukla</b>
Filing Date	:NA	<b>4)Dr. Niladry Sekhar Ghosh</b>
(87) International Publication No	: NA	<b>5)Dr. Subrata Das</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A nasal shape reconfiguration device comprise a T- shaped body 1 placed inverted over nose having a primary imaging unit 2 installed at first portion 11 of body 1 to capture images for detecting overall nose structure, a computing unit 3 wirelessly connected with body 1 via a communication module, to display images captured by image capturing unit 2, a secondary imaging unit 4 integrated over nose buds 5 and fitted at second portion of body 1 to detect internal condition of nose, a nasal cleaning unit fitted over body 1 and consisting a pair of electromagnetic handles 6 which expand nasal cavity to extract mucus from nose by suction unit 7 incorporated within body 1 and works in synchronization with electromagnetic handles 6, an electronic nose lifter 8 arranged on body 1 and fitted with multiple nose pads 9 to reconfigure user desired structure and nose shape.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053524 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS FOR PREPARATION OF CHLORINATED TRIHALOMETHYLPYRIDINES

(51) International classification	:A01N0043400000, C07D0213610000, C07C0229300000, C07C0067313000, C07C0067080000	(71) <b>Name of Applicant :</b> <b>1)SRF Limited</b> Address of Applicant :Unicrest Building, Block C, Sector 45, Gurgaon-122003, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SINGH AVANEESH KUMAR</b>
(33) Name of priority country	:NA	<b>2)PAL RAM</b>
(86) International Application No	:NA	<b>3)BALAJI PRABHU</b>
Filing Date	:NA	<b>4)KUMAR KAPIL</b>
(87) International Publication No	: NA	<b>5)JAIN ANURAG</b>
(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 an industrially applicable process for preparation of chlorinated trihalomethylpyridine. The chlorinated trihalomethylpyridines serve as important intermediates in agrochemical industry for example for synthesis of fluazinam and fluopicolide.

No. of Pages : 13 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053525 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS FOR PREPARATION OF NICOTINALDEHYDES

(51) International classification	:C07C0213020000, C07C0045000000, A01N0025040000, C07C0319140000, C07D0263060000	(71) <b>Name of Applicant :</b> <b>1)SRF Limited</b> Address of Applicant :Unicrest Building, Block C, Sector 45, Gurgaon-122003, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAMALINGAM POUNKUMAR</b>
(33) Name of priority country	:NA	<b>2)YARRAPOTHU RAVIKUMAR</b>
(86) International Application No	:NA	<b>3)KANAGASABAPATHY ANBUVIJI</b>
Filing Date	:NA	<b>4)CHATTERJEE SANKHA SUBHRA</b>
(87) International Publication No	: NA	<b>5)PHILIPS MARIANO PATRICK</b>
(61) Patent of Addition to Application Number	:NA	<b>6)NAGAPPAN ARUMUGAM</b>
Filing Date	:NA	<b>7)KUMAR KAPIL</b>
(62) Divisional to Application Number	:NA	<b>8)JAIN ANURAG</b>
Filing Date	:NA	

(57) Abstract :

The present invention provides an industrially feasible process for preparation of derivatives of nicotinaldehyde of formula I. CHO Formula I wherein R is one or more optionally substituted C1-C2 alkyl. The derivatives of nicotinaldehyde are useful synthetic building blocks for preparation of various pharmaceutical and agrochemical active compounds.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053563 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A FLEXIBLE WALL BALANCER

(51) International classification	:D06F0037200000, D06F0037240000, D06F0049020000, C23C0014080000, B60M0001260000	(71) <b>Name of Applicant :</b> <b>1)LG ELECTRONICS INC.</b> Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KURHE Nikhil Mukund</b>
(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 washing machine with a flexible wall balancer (100) is disclosed. The washing machine includes an inner tub (124) rotatably mounted in an outer tub (122) to hold a load of laundry (126) and a flexible wall balancer (100) mounted on top of the inner tub (124). The flexible wall balancer (100) having an upper balancer (102) and a lower balancer (104) forming an upper surface (110) and a lower surface (112) of the flexible wall balancer (100), respectively. The lower balancer (104) coupled to the upper balancer (102) to form an inner surface (114) of the flexible wall balancer (100). A flexible wall (106) coupled to the upper balancer (102) at a first end (118) and the lower balancer (104) at a second end (120) to form an outer surface (116) of a flexible wall balancer (100).

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053669 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND SYSTEMS FOR MEASURING ATMOSPHERIC OPTICAL TURBULENCE STRENGTH

(51) International classification	:H04N0005232000, G06K0009460000, G06T0007110000, G06K0009340000, G01S0007000000	(71)Name of Applicant : <b>1)Chairman, Defence Research &amp; Development Organisation (DRDO)</b> Address of Applicant :Ministry of Defence, Govt of India, Room No 348, B - Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110 011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)RAO, Golla Nageswara</b>
(33) Name of priority country	:NA	<b>2)ANKAM, Sreekar</b>
(86) International Application No	:NA	<b>3)PRATAP, Amit</b>
Filing Date	:NA	<b>4)NAYAK, Jagannath</b>
(87) International Publication No	: NA	<b>5)KUMAR, Raj</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KUMAR, Sanjeet</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In accordance with some example embodiments of the inventive concepts, a method for measuring atmospheric optical turbulence strength through imaging a target is disclosed. The method includes aligning and focussing an imaging system to a distant target by adjusting a plurality of parameters associated with the imaging system. The method includes initiating an image acquisition upon setting a plurality of image acquisition parameters at the imaging system and selecting at least one distinct feature identifying the distant target. The method includes computing an image jitter associated with the distant target upon selecting the at least one distinct feature during the image acquisition. The method includes determining an image jitter variance associated with the image jitter for a time-interval of the image acquisition. The method includes measuring the atmospheric optical turbulence strength based on the image jitter associated with the distant target.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053671 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR SIMULTANEOUS REDUCTION OF NITROGEN OXIDES AND HYDROCARBON EMISSIONS FROM AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F01N0003080000, B01D0053940000, F01N0013000000, F01N0003200000, F01N0003100000	(71) <b>Name of Applicant :</b> <b>1)Indian Institute of Technology Delhi</b> Address of Applicant :Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHATIA, Divesh</b>
(33) Name of priority country	:NA	<b>2)KHERDEKAR, Pranav V.</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 method for reducing the emissions of NO<sub>x</sub> and hydrocarbons from an internal combustion engine. The invention comprises of selective adsorption and desorption of nitrogen oxides (NO<sub>x</sub>) and hydrocarbons periodically from the engine exhaust using an aftertreatment system comprising of one or more catalytic emission control and emission retaining devices including two lean hydrocarbon and nitrogen oxide (NO<sub>x</sub>) traps (LHNT 1 and LHNT 2). The invention further comprises of desorbing the adsorbed NO<sub>x</sub> and hydrocarbons and recirculating the nitrogen oxides (NO<sub>x</sub>) and hydrocarbons to the engine cylinder wherein hydrocarbons undergo combustion in the cylinder while net reduction in nitrogen oxides (NO<sub>x</sub>) takes place due to equilibrium limitations on NO<sub>x</sub> formation at high temperature.

No. of Pages : 16 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054033 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC FOOD SLICING DEVICE

(51) International classification :B26D0007060000,  
B26D0001000000,  
B26D0005000000,  
B26D0007260000,  
B26D0003280000

(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 :  
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(72)Name of Inventor :  
**1)Jitendra Kumar Singh Jadon**  
**2)Dr. Jayanta Kumar Mahato**  
**3)Rajkishor Singh**  
**4)Dr. Shehzad**  
**5)Anil Kumar Joshi**

(57) Abstract :

The present invention relates to an automatic food slicing device, comprising a body 1 having an inlet 2 to allow passage of various types of food that needs to be sliced, wherein the inlet 2 is installed with a UV (Ultraviolet) light 3 for disinfecting the food, a touch interactive display panel 5 for selecting size of food pieces that are to be achieved upon slicing, a motorized roller 7 including customized shaped slicing blades that pop out through doors of the roller 7 for slicing entered food, a slider crank 9 aid in movement of the motorized roller 7 in a linear motion to align the user selected slicing blade just beneath the inlet 2 for cutting the food and a nozzle 10 for spraying the water on the sliced food with a considerable pressure for cleaning out dirt/dust that may be present on the sliced food.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054034 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATED CLEANING DEVICE FOR COOLERS

(51) International classification	:A61B0005030000, G01D0021020000, A01K0013000000, G01N0033000000, F28F0027000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Jitendra Kumar Singh Jadon</b>
(33) Name of priority country	:NA	<b>2)Jayanta Kumar Mahato</b>
(86) International Application No	:NA	<b>3)Rajkishor Singh</b>
Filing Date	:NA	<b>4)Shehzad</b>
(87) International Publication No	: NA	<b>5)Anil Kumar Joshi</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated cleaning device for coolers comprises a body 1 having motorized fan 2 installed for discharging air, plurality of cooling pads 3 installed within body 1 to pass air through water, a housing 4 integrated with primary sensor 5 which determine temperature of body 1, plurality of secondary sensors 6 integrated over housing 4, to determine water level, air pollution, salt percentage, multiple suction unit 7 incorporated on body 1, to extract sand, debris, salt, multiple primary reservoirs 8 installed in housing 4, interlinked via valves 9 to store cleaning liquids, plurality of nozzles 10 installed with body, to dispense cleaning solution, secondary reservoir 11 in connection with primary reservoir 8, to store formulated mixture of cleaning solution, a buzzer 12 is incorporated on the body 1 to provide alerts for low water level, a salinity sensor 13 integrated on telescopic rod 14 for determining salt level in pads.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054035 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INTERACTIVE SWIMMING TRAINING SYSTEM

(51) International classification	:A63B0069140000, A63B0069120000, A63B0071060000, H04R0001140000, H04M0001210000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering and Technology (Deemed to be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Rajiv kumar</b>
(86) International Application No	:NA	<b>3)Rahit Vats</b>
Filing Date	:NA	<b>4)Anuj Kumar</b>
(87) International Publication No	: NA	<b>5)Mridul</b>
(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 interactive swimming training system that comprises AI based imaging unit 1 operated by microcontroller for the detection of user's swimming posture, wrist band 2 worn by the user and linked with the microcontroller via communication module, the display unit 3 present on the band 2 that shows the levels and swimming styles according to the user, the speaker 5 and microphone 4 attached on the band 2 that generates audio instructions regarding swimming mistakes, wearable fins 6 having shape lifting fibers and worn over user's feet for indicating feet movements, vibration unit 7 attached on the wrist band 2 and fins 6 for indicating synchronized hand and feet movement during swimming, and outlets 8 construct at wall for generating water waves and maintaining water level according to convenience of the user.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054038 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : WAX BASED HAIR REMOVAL DEVICE

(51) International classification :A45D0026000000,  
A61B0005000000,  
A61F0007000000,  
B41J0029020000,  
A44C0009000000

(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 :  
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(72)Name of Inventor :  
**1)Jitendra Kumar Singh Jadon**  
**2)Dr. Jayanta Kumar Mahato**  
**3)Rajkishor Singh**  
**4)Dr. Shehzad**  
**5)Anil Kumar Joshi**

(57) Abstract :

The present invention relates to a wax based hair removal device comprising of body 1 having telescopic sections 2 ,3 opened/closed by motorized hinge 4, the sections are expandable to cover maximum area of the user's body part, a display unit 5 and artificial intelligence based camera integrated in the body 1 allows the user to decide skin's area, a skin sensor integrated in the body 1 detects skin's condition, multiple applicators 13 with respective nozzle 7 configured on the primary sliding rack 8 that contains various containers 6 to store waxing products, first roller 10 arranged on first section 2 provides wax strip, second roller 9 removes the strip's cover and third roller 11 attached to the secondary sliding rack 12 modulated by microcontroller holds the terminal end of wax strip for withdrawing it to remove the hair.

No. of Pages : 16 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054039 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC HAIR WASHING DEVICE

(51) International classification	:G06F0003041000, A45D0019140000, B26B0021400000, A45D0019080000, A45D0019000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. R.K. Jain</b>
(33) Name of priority country	:NA	<b>2)Dr. Jyoti Sharma</b>
(86) International Application No	:NA	<b>3)Shamshad Husain</b>
Filing Date	:NA	<b>4)Dr. Naveen Kumar</b>
(87) International Publication No	: NA	<b>5)Dr. Anil Kumar Nishad</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automatic hair washing device includes, a hollow body 1 having a platform 3, a touch interactive display unit 4 to receive details regarding washing form a user, an infrared sensor 5 connected with an artificial intelligence image capturing module for detecting position of head on the platform 3, the microcontroller determines correct orientation of placement of the head, a pair of telescopic grippers 7 fabricated with pressure sensor, to grip the head while the pressure sensor sense pressure of the grippers 7 on the head and sends signals to the microcontroller that on comparing the sensed pressure with the user input pressure regulate function of the grippers 7 to achieve the user input pressure, multiple sections 9 fixed with a container to distribute hair solution on scalp via a three way valve 13, a pair of telescopic arms 11 with bristles 12 for washing hair process on the head.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054040 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : WOOD SHAPING DEVICE

(51) International classification :A63B0071060000,  
A61B0005103000,  
A47J0045060000,  
G01D0021020000,  
G06F0003041000

(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 :  
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(72)Name of Inventor :  
**1)Dr.Ajay Rana**  
**2)Rajiv kumar**  
**3)Rahit Vats**  
**4)Anuj Kumar**  
**5)Mridul**

(57) Abstract :

The present invention relates to a wood shaping device comprises a body 1 installed with a pair of handles 2 gripped by a user, an AI based image capturing module 3 for detecting cracks/deformities present on the wood surface to be shaped, an ultrasonic sensor 4 integrated on body 1 for detecting density of wood surface, a touch interactive display 5 mounted on the body 1 for displaying virtual images of blades of various widths, a chamber 6 fabricated on the body 1 to store blades which are supported on individual motorized sliders, a pressure sensor 7 installed on each of the handles 2 to determine pressure applied by user while translating the body 1 on the wood surface to be shaped, a pair of grip sensor 8 linked to microcontroller and integrated on handles 2 to determine the gripping pressure exerted by user on the handles 2.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054041 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MODULAR BOAT PROPELLING SYSTEM

(51) International classification :A63B0022000000,  
B63H0016020000,  
A63B0069060000,  
A63B0060060000,  
A61B0005000000

(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 :  
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(72)Name of Inventor :  
**1)Dr.Ajay Rana**  
**2)Rajiv kumar**  
**3)Rahit Vats**  
**4)Anuj Kumar**  
**5)Mridul**

(57) Abstract :

A modular boat propelling system comprises a body 1 integrated with pneumatically telescopic handle 2 for rowing boat on water, an AI (artificial intelligence) based image capturing module 3 for detecting length of hands of user, a vital sensor 4 integrated on the handles 2 and works in synchronization with microcontroller for determining physiological parameters of user, a linear velocity sensor 5 positioned on the handle 2 for determining linear velocity of body 1, a touch interactive display panel 6 configured on handle 2 to show pop-up alerts regarding optimum speed with which the body to be rowed, multiple load cells 7 are integrated at the base portion of the boat for detecting overall weight inside the boat, a pair of plates 8 attached to the blade 9 via a motorized hinge joints 10 to minimize the efforts of user required for rowing boat when subjected to heavy load.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054042 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INTERACTIVE ABDOMEN EXERCISE TRAINING DEVICE

(51) International classification	:A63B0071060000, A63B0023035000, A63B0023020000, A63B0021072000, A63B0021040000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. R.K. Jain</b>
(33) Name of priority country	:NA	<b>2)Dr. Jyoti Sharma</b>
(86) International Application No	:NA	<b>3)Shamshad Husain</b>
Filing Date	:NA	<b>4)Dr. Anil Kumar Nishad</b>
(87) International Publication No	: NA	<b>5)Dr. Naveen Kumar</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An interactive abdomen exercise training device comprising of first and second set of cylindrical holders 10, 4 user aligns feet within second set of holders 10 and grips first set of holders 4 , an imaging unit 6 interlinked with display unit 1 generates user profile inputting current weight and fitness goals, multiple sensors 9 incorporated in the holders 10 detects muscular contraction in arms/legs and health-parameters, a pair of telescopic arms 3, 8 affixed to holders 10 supports user's arms based on data received by sensors 9 and display unit 1 in beginner or intermediate level, a suction module 5 configured around base of device yields pulling force when user's attains correct posture and a voice recognition module linked to speaker 2 generates audio commands counting numbers of sets performed also receiving commands to increase/decrease time interval between exercise sets in expert level training.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054044 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC DISH WASHING DEVICE

(51) International classification	:A47L0015420000, B08B0001000000, A47L0011400000, B08B0005020000, C11D0003330000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Aniket Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Shiva Sharma</b>
(86) International Application No	:NA	<b>3)Dr. Jasvir Singh Rana</b>
Filing Date	:NA	<b>4)Mohd Ahamad</b>
(87) International Publication No	: NA	<b>5)Hamid Ali</b>
(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 an automatic dish washing device comprising, a frame consist of first 1 and second end 2, first end 1, a rotatable platform 3 holds the dish, a handle 4 serve as gripping for handling the device, an artificial intelligence image capturing module 5 monitors the size and material of dish placed, a speaker 6 used for voice commands for completion of the task placed on AI module 5, a telescopic rods 7 with enlarging feature, equipped with claws 8 and pressure sensor 9 which helps to grip the dish with ideal pressure, a brush 10 installed with bristle to clean out dirt and oil stain, multiple containers 11 equipped with Peltier unit 12 used for storing water and various types of cleaning chemicals, a moisture sensor 13 attached with a blower 14 used to regulate inadequate amount of water present after cleaning of the dish.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054045 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : CONCRETE FLOOR LEVELLING DEVICE

(51) International classification :E04G0021100000,  
F02F0003000000,  
E04F0021220000,  
F16H0019040000,  
E01H0001100000

(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

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(72)Name of Inventor :  
**1)Dr. Shehzad**  
**2)Dr. Jayanta Kumar Mahato**  
**3)Rajkishor Singh**  
**4)Jitendra Kumar Singh Jadon**  
**5)Anil Kumar Joshi**

(57) Abstract :

A concrete floor levelling device includes, an elongated levelling rod 1 attached with a handle 2 via bolts that allows a user to drag the rod 1 for levelling a concrete road surface, a pressure sensor 3 embedded within the handle 2 to measures pressure applied by the user while dragging the rod 1, an artificially enabled image capturing unit 4 to determine loosening of the bolt, multiple nozzles 8 fabricated underneath the rod 1 to discharge water over the surface, a pair of telescopic spanners 5 mounted at each sides of the rod 1 via a rack to fasten the loosened bolt, a filler 6 fitted on the rod 1 via a railing to even out a surface to smoothen out the surface, and a pair of supporting frames 7 attached at either sides of the handle 2 via a joint, that distributes pressure equally over the rod 1.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054046 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANTI-TAMPER DEVICE FOR ELECTRIC METERS

(51) International classification	:G06K0009000000, G07C0009380000, G07C0009370000, G06F0021860000, G01R0011240000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering and Technology (Deemed to be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Mridul</b>
(86) International Application No	:NA	<b>3)Rajiv kumar</b>
Filing Date	:NA	<b>4)Rajesh Pandey</b>
(87) International Publication No	: NA	<b>5)Vijay Maheshwari</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anti-tamper device for electric meters includes a housing 1 coupled with a socket 2 storing meter, an electrical latch lock 7 employed with a retractable locking member 3 that engage or disengage an opening formed over the socket 2 to lock or unlock the housing 1, a biometric module 4 verify authorized person's fingerprint, multiple sensors detect motion and presence of magnetic field around the meter to detect tampering attempts, a first artificial intelligence camera unit 5 perform facial recognition on person attempting to open the housing 1 for identifying authorized or unauthorized person, a second artificial intelligence camera unit 6 detect meter reading, a communication module connected with a centralized server operated by concerned authorities to transmit meter readings along with captured images of unauthorized person(s), and a microcontroller actuates the latch to upon detection of authorized person to open the housing 1.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054047 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC TATTOO REMOVAL DEVICE

(51) International classification	:G06N0003080000, G06T0007000000, A61B0005000000, A61Q0019020000, G16H0010600000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Mridul</b>
(86) International Application No	:NA	<b>3)Rajiv kumar</b>
Filing Date	:NA	<b>4)Rajesh Pandey</b>
(87) International Publication No	: NA	<b>5)Vijay Maheshwari</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automatic tattoo removal device includes a handheld body 1 configured with a pair of telescopic supporters 2 that helps in aligning the body 1 on tattoo over the user's skin, a computing unit 3 for enabling the user to input medical information regarding skin allergies, an AI (Artificial Intelligence) based imaging unit 4 for capturing images and analysing location of the tattoo, length of the supporters 2 is telescopically adjusted by the microcontroller based on output generated by the imaging unit, a skin analysing unit 5 for conducting multi spectral imaging of skin texture and analysing properties of the tattoo, multiple containers 6 for storing different types of compositions, and a robotic arm 8 coupled with an applicator 9 for topically applying the composition over skin surface having the tattoo that gradually helps in lightening and removal of pigmentation of the tattoo when the treatment(s) are repeated overtime.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054048 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE VOLLEYBALL TRAINING SYSTEM

(51) International classification	:A63B0069400000, A63B0024000000, A63B0069000000, A63B0047000000, A63B0047020000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Mridul</b>
(86) International Application No	:NA	<b>3)Rajiv kumar</b>
Filing Date	:NA	<b>4)Rajesh Pandey</b>
(87) International Publication No	: NA	<b>5)Vijay Maheshwari</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adaptive volleyball training system, comprises a body 1 having a first and second portion, the second portion mapped with multiple wheels 2 to provide movability, a volleyball net 3 attached on the body 1 via two pneumatically extendable rods that extend the net towards a centre line, an imaging unit 5 to process player's facial images for determining type and level of player, a ball throwing unit 7 consisting of two sliding racks 8 that provide horizontal and vertical movement to the ball throwing unit 7 to position the ball at specific angle based on the level and type of player, a storage chamber 9 equipped with an omnidirectional conveyor belt 10 that provide multiple balls of different weight based on the level of player, a frame having two motorized rollers 11, that receives and disperses the ball at varying speed based on the level and type of player.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054049 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SURROUNDING ACTIVITY BASED NOTIFICATION SYSTEM

(51) International classification :H04M0019040000,  
G08B0007060000,  
H05B0047105000,  
G08B0021240000,  
G08B0025080000

(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)Shobhit Institute of Engineering & Technology (Deemed to-be University)**  
Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India

(72)Name of Inventor :  
**1)Dr.Ajay Rana**  
**2)Rahit Vats**  
**3)Mridul**  
**4)Rajiv kumar**  
**5)Dr. Niraj Singhal**

(57) Abstract :

A surrounding activity based notification system includes, a head band 1 worn by a user for listening to music characterized by a pair of mode selection button 3, a microphone linked a microcontroller, the microcontroller is pre saved with multiple emergency sound samples that upon detected by the microphone, actuates the speakers with a notification sound to alert the user in alert mode, motion detector sensors 4 installed in an enclosure 2 to detect presence of a person and sends the data over the microcontroller that determines whether the person is entering within a pre-fed geo fencing zone 6 or not, multiple artificial intelligence based image capturing units 5 installed within the enclosure 2 to verify person, and a regulating unit integrated within the speakers, stops music and start a continuous beeping sound over the speakers to provide alert notification for the user in case of detection of unknown person.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054050 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTONOMOUS BOARD WIPING DEVICE

(51) International classification	:G06F0003035400, G08B0021020000, G08B0021180000, B43L0021020000, G01F0023240000	(71) <b>Name of Applicant :</b> <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Aniket Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Shiva Sharma</b>
(86) International Application No	:NA	<b>3)Dr. Jasvir Singh Rana</b>
Filing Date	:NA	<b>4)Mohd Ahamad</b>
(87) International Publication No	: NA	<b>5)Hamid Ali</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An autonomous board wiping device includes, an elongated body 1, wherein a first portion 12 of the body 1 is fabricated with a sliding lid 2 to reveal multiple telescopic foam cleaners 10 specifically fabricated to remove dust, debris over board surface, an artificial intelligence based primary image capturing unit 3 installed over the body 1, saves the text within a microcontroller, a communication module transmit a notification over computing unit 3 operated by the students to copy the text written over the board, upon detecting no response from the user for a threshold time, the microcontroller actuates cleaners 10 to erase the text and simultaneously sends the text over the computing unit 3 to allow the students to copy the text later, suction units 4 operated by user by pushing a primary button 5 to extract chalk dust present over the board and store inside a storage bin.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054051 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : RIDER SAFETY SYSTEM FOR TWO WHEELERS

(51) International classification	:B62J0099000000, B62J0045400000, B62J0027000000, B62J0003000000, B62J0045200000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Jitendra Kumar Singh Jadon</b>
(33) Name of priority country	:NA	<b>2)Dr. Jayanta Kumar Mahato</b>
(86) International Application No	:NA	<b>3)Rajkishor Singh</b>
Filing Date	:NA	<b>4)Dr. Shehzad</b>
(87) International Publication No	: NA	<b>5)Anil Kumar Joshi</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A rider safety system for two wheelers includes a body installed over seat of a two wheeler 2, a sensing module 3 determines real time tilting or leaning angle of the user while riding and measures distance of the user from other approaching vehicles or obstacles, an image capturing unit 4 determines obstruction proximity to the user along with speed at which the obstruction is approaching, a microcontroller upon detecting an obstruction or other vehicle within first threshold range of user, actuates a vibration module to generate vibrations to notify the user, a waist belt 5 allows the user to secure with the body, multiple inflating bags 6 interlinked with a inflating cylinder, upon detecting an obstruction or other vehicle approaching near to the user within second threshold range and/or detecting unfastened seat belt 5, the microcontroller actuates valve for inflating the bags 6 to prevent the user from injury.

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053835 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SMART BURNER

(51) International classification :H01Q0009300000,  
H04W0080040000,  
F16M0011240000,  
H04B0001000000,  
F21V0021116000

(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)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND  
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Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan –  
173229 (HP) Himachal Pradesh India

(72)Name of Inventor :  
**1)Chandresh Kumari  
2)Swati  
3)Vijay Chauhan  
4)Ishan Sharma  
5)Kartik Chauhan  
6)Sudarshan  
7)Gaurav Saxena**

(57) Abstract :

Present subject matter relates to a smart burner (100). The smart burner (100) includes a body (102). In one embodiment, the body (102) includes a first unit (104) and a second unit (106). The first unit (104) is configured to include one or more components. In one embodiment, the one or more components include at least an electrical cord (108), an indicator (110), and a switch module (112). The second unit (106) is coupled and placed above the first unit (104). In one embodiment, the second unit (106) includes a guided tube (114) and a heating element (116). Further, the first unit (104) is a base unit having a square shape and the second unit (104) is a top unit having a rectangular shape.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053843 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A HEATER ARRANGEMENT IN A WASHING MACHINE

(51) International classification	:D06F0039040000, D06F0039120000, D06F0039080000, D06F0039000000, D06F0034280000	(71) <b>Name of Applicant :</b> <b>1)LG ELECTRONICS INC.</b> Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b> <b>1)KULKARNI Anjaney</b>
(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 :

A heater arrangement (102) in a washing machine (100), is provided. The heater arrangement (102) includes an outer drum (104) provided within a cabinet of the washing machine, an heater (204) provided in the outer drum (104) and a thermistor to control temperature of the heater (204). Further, the heater (204) is provided in a separate heater casing in the outer drum Fig.2 (104) and the thermistor operates the heater to maintaining a temperature range inside the washing machine.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053875 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : CLOUD-BASED DECEPTION TECHNOLOGY UTILIZING ZERO TRUST TO IDENTIFY THREAT INTELLIGENCE, TELEMETRY, AND EMERGING ADVERSARY TACTICS AND TECHNIQUES

(51) International classification	:H04L0029060000, G06F0021560000, H04L0029080000, G06F0021550000, H04L0029120000	(71) <b>Name of Applicant :</b> <b>1)Zscaler, Inc. ,</b> Address of Applicant :120 Holger Way, San Jose, CA 95134, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Bhavesh Kothari</b>
(33) Name of priority country	:NA	<b>2)Sahir Hidayatullah</b>
(86) International Application No	:NA	<b>3)Deepen Desai</b>
Filing Date	:NA	<b>4)Akshay Shah</b>
(87) International Publication No	: NA	<b>5)Reshad Patuck</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Cloud-based deception systems and methods with zero trust include hosting (852) a decoy cloud (802) environment for a customer that contains a plurality of decoys and that is hosted and separated from a real environment of the customer; receiving (854) traffic from a user (102) associated with the customer; detecting (856) the traffic is related to accessing a fake asset on a user device (300) associated with the user (102); rerouting (858) the traffic to the decoy cloud (802) environment; and monitoring (860) activity associated with the fake asset in the decoy cloud (802) environment.

No. of Pages : 49 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053876 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DYNAMIC L2VPN PSEUDOWIRE SIGNALING THROUGH SEGMENT ROUTING

(51) International classification	:H04L0012721000, H04L0012723000, H04L0012460000, H04L0012751000, H04L0012715000	(71) <b>Name of Applicant :</b> <b>1)CIENA CORPORATION</b> Address of Applicant :7035, Ridge Road, Hanover, Maryland, 21076, United States of America U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Susanta Kumar Pradhan</b>
(33) Name of priority country	:NA	<b>2)Mukul Sharma</b>
(86) International Application No	:NA	<b>3)Amit Kumar Choudhary</b>
Filing Date	:NA	<b>4)Mohit Sharma</b>
(87) 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 :

Systems and methods include receiving (52) a pseudowire configuration for a pseudowire with a second network element; configuring (54) the pseudowire as segment routing; adding (56) the pseudowire configuration in link state advertisements (LSAs) that are flooding in a network via an interior gateway protocol (IGP); and maintaining (58) a state of the pseudowire based on the flooding. The state is maintained without using label distribution protocol (LDP) or border gateway protocol-auto discovery (BGP-AD).

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053894 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A CRASH ABSORPTION ASSEMBLY FOR A FOUR-WHEELER VEHICLE

(51) International classification	:B62D0025040000, B60R0021360000, B62D0021150000, F16H0048200000, B62D0067000000	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY, SECTOR-125, NOIDA, UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dosawada Pavan Sai</b>
(33) Name of priority country	:NA	<b>2)Rohit Sharma</b>
(86) International Application No	:NA	<b>3)Neeraj Kumar</b>
Filing Date	:NA	
(87) 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 crash absorption assembly for a four-wheeler vehicle. The present invention relates to the protection of the windshield and the A-pillar of the low height cars from the high-level objects such as truck body. To protect the windshield, a hidden pillar is arranged in the bonnet part. The pillar is activated by the hydraulically operated system. The hydraulic fluid is operated by the hydraulic pumps which is governed by the electronic control unit. The input for the ECU is given by the sensors. Whenever, the external object is moving towards the A-pillar then the sensors give signal to the ECU which activates the pillars. The pillars pass through the side holders which avoids the side movement of the pillars. Through these pillars the car can be avoided from crushing and the windshield can be protected from breaking.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053397 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADVANCE SURFACE REPAIRING DEVICE

(51) International classification	:G06F0003041000, G01N0035000000, G01N0033180000, A61B0005145000, F25D0029000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Dr. Jyoti Sharma</b>
(87) International Publication No	: NA	<b>5)Shamshad Husain</b>
(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 an advance surface repairing device, comprising a body 1 installed with a circular disc 14 configured with an AI based imaging unit 2 to take multiple images of red clay, an ultrasonic sensor 7 fabricated on body 1 to measure unevenness of the surface, a microcontroller connected with the unit 2 and sensor 7 to decide dispensing amount, plurality of primary of nozzles 3, 5 fabricated over the body 1 to dispense clay removal chemical and water, a secondary nozzle fabricated over disc 14 for dispensing mortar, pressure sensor 4 embedded in the disc 14 to sense the level of pressure, a touch interactive display 8 mounted on the body 1 to show various sensor data, an electric motor 15 connected with the circular disc 14 to impart circular motion to the disc 14 in order to accomplish plastering of the surface.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053398 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC BRAKE LEVER LOCKING DEVICE

(51) International classification	:F16D0065600000, B60T0007100000, H04N0005232000, B60R0025000000, F16D0121220000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Jitendra Kumar Singh Jadon</b>
(33) Name of priority country	:NA	<b>2)Jayanta Kumar Mahato</b>
(86) International Application No	:NA	<b>3)Rajkishor Singh</b>
Filing Date	:NA	<b>4)Dr. Shehzad</b>
(87) International Publication No	: NA	<b>5)Ravi Kr. Bhatnagar</b>
(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 an automatic brake lever locking device, comprising a body 1 fabricated on the proximity of throttle portion to control the motion, a biometric scanner 2 configured on the body 1 for scanning biometric details of user, a rotatable artificial intelligence enabled image capturing module 3 mounted on the body 1 to take multiple images of user, a robotic gripper 4 positioned on the body 1 in order to engage and disengage the brake lever, an ultrasonic sensor 5 mapped on the body 1 in order to measure distance between the two wheeler and nearby vehicles , a voice recognition unit 6 fabricated on the body 1 to take command from the user to engage and disengage the brake lever as per wish.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053399 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SKIN CARE DEVICE

(51) International classification :A45D0044000000,  
A61B0005000000,  
A61B0005053000,  
A42B0003220000,  
A61F0009060000

(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 :  
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Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India

(72)Name of Inventor :  
**1)Dr. Shiva Sharma**  
**2)Dr. Manisha Rastogi**  
**3)Dr. Subrata Das**  
**4)Dr. Sudheesh Shukla**  
**5)Dr. Niladry Sekhar Ghosh**

(57) Abstract :

The present invention relates to a skin care device, comprising a wearable body 1 to be worn on user's head, a face shield 2 coupled on body 1 to cover entire face of user, a slider plate 3 connected to the body 1 to conceal the face of user, a skin pH sensor 4 positioned on the slider plate 3 to detect pH level of face, a chamber 5 constructed on apex part of the body 1 to store and crush the fullers earth, a pair of containers 9 and 10 to store first and second set of solution, plurality of nozzles 11 mapped on the face shield 2 to dispense the solution on the entire face and an artificial intelligence enabled image capturing module 12 mounted on the face shield 2 in order to check the accuracy of spraying.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053400 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE VISUAL ASSISTIVE DEVICE

(51) International classification	:F21K0009238000, F21Y0115100000, G03B0035080000, F21V0033000000, A47J0027620000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Mohd Ahamad</b>
(87) International Publication No	: NA	<b>5)Dr. Jyoti Sharma</b>
(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 an adaptive visual assistive device, comprising a wearable body 1 having at least two end installed with a LED lights 2 via motorized ball and socket joint to provide lighting, a primary image capturing unit 4 mounted on first portion of the body to capture movement of the user, a secondary image capturing unit 5 attached in second portion the body to capture reading behaviour of the user, a microcontroller connected to the body and the image capturing units 4 and 5 to decide amount of the light, a holographic projection unit 6 mounted on the body 1 for virtually represent the text and a communication module to connect the body 1 and computing unit in order to allow change in color of the light emitted by the LED lights 2 .

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053401 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE FASTENING DEVICE

(51) International classification :B25B0013060000,  
A63B0053000000,  
B23B0051100000,  
D06B0023020000,  
A61C0005420000

(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 :  
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**2)Dr. Jayanta Kumar Mahato**  
**3)Jitendra Kumar Singh Jadon**  
**4)Dr. Shehzad**  
**5)Dr. Yogesh Kumar**

(57) Abstract :

The present invention relates to an adaptive fastening device, comprising a shaft 1 related with the device having a proximal 10 and distal 11 end, an image capturing unit 2 mounted on the proximal end 10 of the shaft 1 to capture multiple images of the nut, a pair of grooves 3 fabricated at distal end 11 to grip the nut, a telescopic rod 4 embedded within the shaft 1 to alter length of shaft 1, a microcontroller connected to the unit 2 to assess the size of nut, pair of grooves 3 and rod 4 to command appropriate dimension changes as per size of nut, a motorized chuck 5 integrated in between the grooves 3 in order to provide rotary motion to the nut and at least a pressure sensor 6 integrated within the chuck 5 to measure pressure exerted by the chuck 5 over the nut.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053402 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FLOOR PAINT REFURBISHING DEVICE

(51) International classification	:A47L0011400000, B44D0003000000, A47L0011300000, B44D0003160000, B08B0005020000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Jitendra Kumar Singh Jadon</b>
(33) Name of priority country	:NA	<b>2)Dr. Jayanta Kumar Mahato</b>
(86) International Application No	:NA	<b>3)Rajkishor Singh</b>
Filing Date	:NA	<b>4)Dr. Shehzad</b>
(87) International Publication No	: NA	<b>5)Ravi Kr. Bhatnagar</b>
(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 floor paint refurbishing device having a portable body 1 configured with first (external) and second (internal) portion 2, 3 that includes an imaging unit 4 for capturing wall and floor image, a display unit 5 for user-device interaction, a telescopic scrubbing tool 6 with a primary nozzle 7 for dispensing chemical and removing paint, a telescopic scratching tool 8 for removing paint, a suction unit 9 for collecting removed paint, plurality of chambers 10 each having a pipe 11 for storing paints and chemicals, a common chamber 12 for mixing paints, a projection unit 13 for projecting image, plurality of secondary nozzles 14 attached on a telescopic roller brush 15 for dispensing and spreading paint, wheels 16 for movement, an ultrasonic sensor 17 for detecting distance from projected image and a blower 18 for drying floor after cleaning or paint application.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053403 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PARAGLIDER MANEUVERING ASSISTANCE SYSTEM

(51) International classification	:A61B0005000000, B64D0017020000, A61B0005010000, A61B0005020500, A61B0005080000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. R.K. Jain</b>
Filing Date	:NA	<b>4)Dr. Jyoti Sharma</b>
(87) International Publication No	: NA	<b>5)Shamshad Husain</b>
(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 paraglider maneuvering assistance system, comprising an anemometer 1 fabricated on harness 5 of parachute 12 to measure velocity and direction of wind, a wearable band 2 installed with a touch interactive display panel 3 for feeding co-ordinates, a pair of wirelessly operated Bluetooth earphones 4 linked with microcontroller to suggest user while taking turn, a vibration unit 6 mounted on handle 7 of parachute 12 to alert user to take specific turn, a pressure sensor 8 mapped on each handle 7 to measure the pressure exerted by the user on handles 7, a vital sensor 9 configured on the band 2 to measure health parameters of the user and a smoke emitting unit 11 installed on the parachute in order to alert the user bring back the parachute 12 in ground.

No. of Pages : 17 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053404 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MULTIUSER BLOOD GLUCOSE MONITORING DEVICE

(51) International classification :A61B0005151000,  
A61B0005150000,  
A61B0005145000,  
G06K0009000000,  
A61B0005157000

(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 :  
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(72)Name of Inventor :  
**1)Jitendra Kumar Singh Jadon**  
**2)Dr. Jayanta Kumar Mahato**  
**3)Rajkishor Singh**  
**4)Dr. Shehzad**  
**5)Ravi Kr. Bhatnagar**

(57) Abstract :

The present invention relates to a multiuser blood glucose monitoring device with a housing 1 including a cavity 3 inside the housing 1 for figure insertion, a fingerprint sensor 3 within the cavity 3 for user identification, a sterilization unit 5 coupled with the fingerprint sensor 4 for disinfecting finger and device, plurality of lancets 6 for pricking finger arranged on plurality of spokes 7 in a wheel like structure for holding and switching lancets 6, multiple solenoids 8 for pushing lancets 6, a rubberized actuator 9 for pressing pricked finger, plurality of test strips 10 arranged in a magazine 11, a hammer 12 attached to first telescopic rod 13 for pushing the strips 10 out of magazine 11, a motorized clamp 14 coupled with second telescopic rod 15 for holding and moving the strip 9 towards blood droplet and a display panel 16 for displaying measured readings and notifications.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053405 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BADMINTON PERFORMANCE ANALYZING DEVICE

(51) International classification	:A63B0102040000, A63B0067187000, A63B0069000000, A63B0049020000, A63B0071060000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. R.K. Jain</b>
Filing Date	:NA	<b>4)Dr. Jyoti Sharma</b>
(87) International Publication No	: NA	<b>5)Shamshad Husain</b>
(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 badminton performance analyzing device characterized in the form of a badminton/racket 1 including a set of imaging units 4, 5 attached at head portion 2 of the racket 1 and connected with a microcontroller 6 for capturing the approaching shuttlecock and analyzing thermal spots created on the racket 1 while hitting the shuttlecock, a pair of sensors 7, 8 integrated within the head portion 2 for detecting the distance between the racket 1 and the shuttlecock and intensity of impact caused on hitting the shuttlecock, and a timer 9 linked with the sensors 7, 8 and controlled by the microcontroller 6 for calculating number of shots played and for analyzing swing speed.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054262 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : APPARATUS AND METHOD FOR GENERATING CHEMICAL VAPOR STANDARDS

(51) International classification	:C23C0016440000, G16C0020800000, C23C0016448000, C23C0016455000, G16C0020700000	(71)Name of Applicant : <b>1)Chairman, Defence Research &amp; Development Organisation (DRDO)</b> Address of Applicant :Ministry of Defence, Govt of India, Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi – 110011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Garg, Prabhat</b>
(33) Name of priority country	:NA	<b>2)Imran, Mohammad</b>
(86) International Application No	:NA	<b>3)Thakare, Vikas Baburao</b>
Filing Date	:NA	<b>4)Sonkar, Atul Kumar</b>
(87) 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 an apparatus (100) and a method for generating chemical vapor standards of pre-defined concentration and humidity in an inert gas with a desired flow rate. The apparatus (100) comprises an inert gas reservoir (102) for supplying an inert gas stream in an inert gas flow line (104), a moisture generator (112) configured to receive a portion of the inert gas stream and generate a pre-defined quantity of moisture vapors in a mixing line (118), and a chemical vapor synthesizer (128) for introducing a pre-defined quantity of chemical vapors into the receptacle line (116). The pre-defined quantity of the chemical vapors is mixed with the pre-defined quantity of moisture vapors in the mixing line (118) to generate a gas mixture. A moisture analyzer (130) and a chemical sensor (132) are provided to determine moisture concentration and chemical concentration of the inert gas mixture, respectively.

No. of Pages : 30 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054263 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : APPARATUS AND METHOD FOR PERMEATION TESTING OF MATERIALS AGAINST CHEMICALS

(51) International classification	:G01N0015080000, C40B0060140000, H01S0003000000, G01N0033530000, G01N0017000000	(71)Name of Applicant : <b>1)Chairman, Defence Research &amp; Development Organisation (DRDO)</b> Address of Applicant :Ministry of Defence, Govt of India, Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi – 110011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Garg, Prabhat</b>
(33) Name of priority country	:NA	<b>2)Imran, Mohammad</b>
(86) International Application No	:NA	<b>3)Thakare, Vikas Baburao</b>
Filing Date	:NA	<b>4)Sonkar, Atul Kumar</b>
(87) International Publication No	: NA	<b>5)Gupta, Arvind Kumar</b>
(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 permeation test cell (4) for permeation testing of materials against chemicals. The permeation test cell (4) comprises an upper body (20) provided with first vents (40, 42, 44) and a lower body (28) provided with second vents (46, 48, 50), for passing a first and a second gaseous stream. A perforated Polytetrafluoroethylene (PTFE) grid (32) on the sample support plate (26) is placed underneath the test sample (24) to allow passage of the contaminant (31) to the sorbent tube. A test sample (24) with a contaminant (31) is disposed in the permeation test cell (4). The second vent (50) is configured to be attached to a sorbent tube for accumulation of contaminant (31) permeating through the test sample (24). The permeation test cell (4) is configured to receive a weight (29) on the test sample (24) for forcing permeation of the contaminant (31) through the test sample (24).

No. of Pages : 38 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054266 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : APPARATUS AND METHOD FOR PENETRATION TESTING OF PROTECTIVE CLOTHING AGAINST FLUIDS

(51) International classification	:H04L0029060000, G06F0021570000, A62B0017000000, G01N0015080000, A62D0005000000	(71)Name of Applicant : <b>1)Chairman, Defence Research &amp; Development Organisation (DRDO)</b> Address of Applicant :Ministry of Defence, Govt of India, Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi – 110011, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Garg, Prabhat</b>
(33) Name of priority country	:NA	<b>2)Meher, Damayanti</b>
(86) International Application No	:NA	<b>3)Thakare, Vikas Baburao</b>
Filing Date	:NA	<b>4)Sonkar, Atul Kumar</b>
(87) 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 an apparatus (100) and a method (200) for penetration testing of protective clothing against fluids. The apparatus (100) comprises a test specimen holding fixture (102) to support the test specimen, and a fluid dispersing device (150) for dispersing a stream of pre-defined amount of the test fluid to a targeted area of the test specimen, at a constant rate. The fluid dispersing device (150) comprises a syringe (152) having a plunger (156) and a needle (158), and a syringe actuator (160) for applying pressure to the plunger (156) to enable ejection of the test fluid accommodated within the syringe (152), through the needle (158), to the targeted area of the test specimen.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054271 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR POINT-BASED SCHEDULING OF RADIO RESOURCES

(51) International classification	:H04W0072120000, H04W0072040000, H04W0076150000, G06Q0030020000, H04W0008120000	(71) <b>Name of Applicant :</b> <b>1)Sterlite Technologies Limited</b> Address of Applicant :3rd Floor, Plot No.3, IFFCO Chowk, Sector 29, Gurugram, Haryana 122002 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nitin Kumar</b>
(33) Name of priority country	:NA	<b>2)Manish Jamwal</b>
(86) International Application No	:NA	<b>3)Rishi Kumar Nandwana</b>
Filing Date	:NA	
(87) 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 method for scheduling one or more radio resources to a plurality of user equipment in a network. The method includes a first step of calculating an allocation factor for each of the plurality of user equipment. The method includes a second step of allocating one or more points to each of the plurality of user equipment. One or more points are allocated to each of the plurality of user equipment based on the service associated with each of the plurality of user equipment. The method includes a third step of calculating a rank for each of the plurality of user equipment. The method includes a fourth step of allocating one or more radio resources to each of the plurality of user equipment. One or more radio resources are allocated based on the rank of each of the plurality of user equipment.

No. of Pages : 20 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054052 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : TRAINING DEVICE FOR SKIPPING

(51) International classification :A63B0005200000,  
A61B0005020500,  
A63B0071060000,  
A61B0005000000,  
A61B0005145500

(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 :  
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Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India

(72)Name of Inventor :  
**1)Dr.Ajay Rana**  
**2)Dr. Aniket Kumar**  
**3)Dr. R.K. Jain**  
**4)Dr. Shiva Sharma**  
**5)Rajesh Pandey**

(57) Abstract :

A training device for skipping includes, a pair of pole 1 engraved over a ground surface and connected with a skipping rope 2, a finger print sensor 3 embedded over the pole 1 that authenticates the user via a linked microcontroller, the profile is saved with user's physical and health data, wearable bands 4 equipped by a user integrated with sensors that measures blood flow rate, temperature of the user's body and physical characteristics of the user's muscle and sends to the microcontroller via a communication module, a projection unit 5 mounted over the pole 1 and upon selecting beginner and intermediate level by user, the microcontroller activates the unit 5 to project different phases of jump to provide practice for the user, a motorized ball joint 6 fitted on each pole 1 and coupled with the rope 2, the microcontroller activates the joint 6 to rotate the rope 2.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054053 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FOOD ADDITIVE CULTIVATION DEVICE

(51) International classification	:A01K0063040000, A01K0063060000, H01L0021670000, H05B0047100000, A01K0063000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Dr. R.K. Jain</b>
(87) International Publication No	: NA	<b>5)Dr. Jasvir Singh Rana</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A food additive cultivation device includes, a housing having an aquarium 1 stored with water, equipped with a Peltier module for maintaining inner temperature of the aquarium 1 for cultivation of a food additive, a photoresistor 3 integrated with a microcontroller positioned on the housing for detecting light intensity, in case intensity is below the threshold, then the microcontroller commands Light Emitting Diodes 4 to impart light for maintaining the ambient lighting for proper cultivation of the additive, Sub chambers 5 configured with valves arranged inside the aquarium 1, the microcontroller opens up the valves to dispense the minerals inside the water, until appropriate pH level of the water and mineral mixture is achieved, a primary artificial intelligence enabled image capturing module 6 for detecting real time growth the additive 2 inside the aquarium 1 and to command a display panel for displaying information regarding completion of the cultivation process.

No. of Pages : 14 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054054 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FALL PREVENTION DEVICE FOR WALL SUSPENDED OBJECTS

(51) International classification	:F21W0121000000, F16M0013020000, E04G0003320000, H04W0008260000, A63G0031000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Dr. R.K. Jain</b>
(87) International Publication No	: NA	<b>5)Dr. Jasvir Singh Rana</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fall prevention device for wall suspended objects includes a base platform 1 employed with multiple decorative lights 4 suspended from a ceiling 2 through a bar, an ultrasonic sensor 5 integrated to a microcontroller configured on the platform 1 for determining distance between the platform 1 and ceiling 2, the microcontroller compares the determined distance with a pre-defined data and in case the determined distance is exceeding the data, the microcontroller generates a command to activate pneumatically actuated telescopic rods 6, the rods 6 installed with suction cups 7 and fitted on the platform 1, the rods 6 extend in a manner to aid the cups 7 for gripping the ceiling 2 which secures the platform 1 along with the light from collapsing, a motor connected with the suction cups 7, actuates operation of the cups 7 by creating a vacuum in between the gripping surface and cups 7.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054055 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC FURNITURE MAINTENANCE SYSTEM

(51) International classification	:A47C0031120000, G01G0019440000, A47G0023020000, A47C0007620000, G01G0019414000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Dr. R.K. Jain</b>
(87) International Publication No	: NA	<b>5)Dr. Jasvir Singh Rana</b>
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automatic furniture maintenance system, comprising weight sensor 1 in synchronization with multiple pressure sensors 2 determines weight of user, a microcontroller linked with weight and pressure sensors 1, 2 to determine weight and pressures, a movable body 6 installed with image capturing module 10 for detecting cracks, a nozzle 14 positioned on a first side 19 of the body 6 for dispensing glue on the cracked portion, multiple hinges 17 positioned inside a container 15, wherein container 15 is further installed with a motorized arm 16 that grips and places hinges 17 on glued portion, and multiple telescopic rods 8 configured with suction cups 9 installed at a second side 20 of the body 6 that actuates to extend up to ground surface for gripping purpose which in turn aids in distribution of weight of the body 6 acting on cracked portion and provide stability to the body 6.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053895 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN IOT BASED REAR VIEW MIRROR FOR FOUR-WHEELER VEHICLE

(51) International classification	:G08B0021060000, G06K0009000000, B60R0001120000, B60R0001040000, B60R0001080000	(71)Name of Applicant : <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Aarushi Dhyani</b> <b>2)Alka Chaudhary</b>
(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 :

The present invention relates to an IoT based rear view mirror for four-wheeler vehicle. The novelty of the present invention resides in the approach to provide a smart rear-view mirror that will operate fully automatically for handling issues like drowsy driver detection, vehicle theft as well as accident tracking and GPS alert. Chiefly, the car rear view mirrors available in the market comprise of a number of rear-view mirrors with smart parking feature, LCD display, face recognition, few having a biometric accessing technology and so on. Although the viability of the past inventions is acknowledged none of these products have the ability of providing driver drowsiness detection, accident tracking with GPS alert and vehicle theft all in one smart rear-view mirror.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053896 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND NETWORK DEVICE FOR CONFIGURING END TO END DATA PATH IN TRANSPORT NETWORK

(51) International classification	:H04J0003060000, H04L0012260000, H04L0012240000, H04L0012841000, H04L0012801000	(71) <b>Name of Applicant :</b> <b>1)STERLITE TECHNOLOGIES LIMITED</b> Address of Applicant :STERLITE TECHNOLOGIES LIMITED, IFFCO Tower, 3rd Floor, Plot No.3, Sector 29, Gurgaon 122002, Haryana, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Puneet Agarwal</b>
(33) Name of priority country	:NA	<b>2)Bhushan Desai</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

Accordingly, the present disclosure provides a method and a network device (200) for configuring an end-to-end data path in a transport network (1000). The method includes computing at least one feasible data path between network nodes (800a-800r). The network nodes (800a-800r) are a part of different clock chains and relative to different grandmaster clocks for at least one time and latency-sensitive service. The at least one feasible data path is associated with a time synchronization protocol. Further, the method includes computing an E2E synchronization matrix for each of the at least one feasible data path based on a time and synchronization QoS parameter. The time and synchronization QoS parameter include a time error, a phase delay, a jitter, and a frequency offset observed on each network node (800a-800r) in a centralized controller.

No. of Pages : 43 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053948 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DEVICE FOR MONITORING TIRE CONDITION

(51) International classification	:B60C0011240000, B29D0030540000, H04M0001725000, G01M0017020000, G07C0005080000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KAUSHIK, Naveen</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Deepak</b>
(86) International Application No	:NA	<b>3)KUKREJA, Vinay</b>
Filing Date	:NA	
(87) 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 device (100) adapted to be configured with a tire of the vehicle. The device (100) include a sensor (102) for acquiring information of one or more characteristics of the tire such as tread depth, tread pattern, and etc. A control unit (104) configured for analysing the acquired information to get the remaining life of tire, and analysed information is displayed on a digital meter (106) coupled near the driver seat. Moreover, the device (100) also notify the driver when there is a need to replace the tire, or re-treading, by displaying notification on the digital meter (106).

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053949 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM FACILITATING IN HOUSE OXYGEN GENERATION AND SUPPLY IN HOSPITALS

(51) International classification	:C12M0001000000, A61M0016000000, A01G0007020000, A01G0009180000, C23C0014560000	(71)Name of Applicant : <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)MOHAPATRA, Srikanta Kumar</b>
(33) Name of priority country	:NA	<b>2)MOHANTY, Jayashree</b>
(86) International Application No	:NA	<b>3)TANISH</b>
Filing Date	:NA	<b>4)GUPTA, Srishti</b>
(87) International Publication No	: NA	<b>5)SUNISHTHA</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SARANGI, Prakash Kumar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system to produce and supply oxygen (O<sub>2</sub>) in hospitals, which includes; chambers to store, mixture of oxygen producing plant and water. Pipeline is provided to supply carbon dioxide (CO<sub>2</sub>), from CO<sub>2</sub> cylinder, to chambers, as per requirement detected by CO<sub>2</sub> sensor where, upon supplying artificial light, oxygen producing plants undergo photosynthesis to produce residue as Biomass and O<sub>2</sub>. Due to high density, biomass is accumulated at bottom of chamber and extracted by opening a tap lock, while lightweight O<sub>2</sub>, accumulates at top. Further, ongoing photosynthesis increases pressure of O<sub>2</sub> at the top of chamber, hence it passes through pipeline and gets collected in O<sub>2</sub> cylinder which has IoT enabled sensor to measure amount of O<sub>2</sub> and based on requirement of patient, O<sub>2</sub> is supplied to patient by controlling automated regulator knobs directly. The system provides a more proficient and automated way to produce and supply oxygen.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053950 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM TO CONTROL WATER SUPPLY IN WATER TANKS

(51) International classification	:E03D0001320000, E03D0005000000, B28D0007020000, E03B0011100000, F02M0025022000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SANDHU, Mamatha</b>
(33) Name of priority country	:NA	<b>2)JAT, Gopal Lal</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 pertains to a system (100) to assist in controlling water supply to overhead tanks (102) in a premises. The system (100) can be configured to facilitate supply to overhead tanks (102), when found empty, or low water level. Water supply can be provided from the central water reservoir (110), if supply water is coming at that time. When supply water is not coming, the water can be supplied from an auxiliary water tank (104) to replenish water in overhead tank (102). A motor (114) can be automatically actuated to propel water from either the central water reservoir (110) or auxiliary water tank (104), upon detection of low water level in the overhead tank (102).

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053951 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DOOR CONTROL APPARATUS FOR AN AUTOMOBILE DOOR AND METHOD THEREOF

(51) International classification	:E05F0015700000, E05F0015730000, E05F0003220000, E05F0015420000, E05F0003100000	(71)Name of Applicant : <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Manjula Lokeshmurthy</b> <b>2)Prashant Golappanavar</b> <b>3)Tukkaram Kirubasankar</b>
(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 :

A door control apparatus for automobile door and method thereof is disclosed. The door control apparatus (100) determines, using sensors, if door of vehicle is in at least one of open condition and closed condition. The door control apparatus detects initial closing of door using sensors, when the door is in open condition. The initial closing of the door is performed by user. Further, the door control apparatus detects, after initial closing of door, tension in horizontal spring (104) coupled to door, upon nearing closure of door and attaining pre-defined angle of door. Furthermore, the door control apparatus actuates automatic door closure from pre-defined angle of the door to complete door closure, upon detecting tension of the horizontal spring. Thereafter, the door control apparatus triggers door drive motor (106) for automatic door closure from pre-defined angle of the door to complete door closure, based on the actuation.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053952 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MODULAR ORTHOGONAL CLIP FOR FIXING A VEHICLE WIRING HARNESS

(51) International classification	:B60R0016020000, F16B0021080000, F16B0005060000, B25J0015060000, G03B0017560000	(71)Name of Applicant : <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Chockalingam Chidambaram</b>
(32) Priority Date	:NA	<b>2)Saravanan Rathinam</b>
(33) Name of priority country	:NA	<b>3)Megha Mahajan</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 clip 200 for fixing a wiring harness/pipe 208 of a vehicle is disclosed, including a base 202 detachably fixed with a mounting opening 214 in an object/ mounting interface 204 through a mounting portion 210 and having a support portion 212 to support a holding member 206. The holding member 206 includes a holder portion 216 to hold the wiring harness/pipe 208 and a snap fit feature 218 for engagement with a hole in the support portion 212. The holding member 206 is attached to the base 202 in a direction perpendicular to the longitudinal axis of the wiring harness/pipe 208. The mounting portion 210 of the base 202 is fixed to the mounting interface 204 along a longitudinal axis of the wiring harness/pipe 208, thereby fixing the wiring harness/pipe 208 along a mounting direction of the clip 200.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053973 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTO - SHOE CLEANER

(51) International classification	:A47L0023220000, A43B0001000000, F16H0007080000, F25C0001250000, A47L0023260000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sushil Kumar</b>
(33) Name of priority country	:NA	<b>2)Shivanya Thakur</b>
(86) International Application No	:NA	<b>3)Sonia Kumari</b>
Filing Date	:NA	<b>4)Abhay Sharma</b>
(87) International Publication No	: NA	<b>5)Sakshi Guleria</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present subject matter relates to an auto-shoe cleaner (100). The auto-shoe cleaner (100) comprising a shoe rest (102) for placing a shoe. The shoe rest (102) includes a brush assembly (104). In one embodiment, the brush assembly (104) includes nylon brushes and is configured to be placed at a first portion of the shoe rest (102) for cleaning the shoe. Further, the shoe rest (102) includes a water container (106) coupled to the brush assembly (104). The water container (106) is configured to supply water to remove dirt from the shoe. Further, the shoe rest (102) includes a plurality of rollers (108), an adsorbent pad (112), and a drying unit (114). The drying unit (114) is configured to be placed at an upper edge of the second portion of the shoe rest (102) for drying the shoe. Further, the shoe rest (102) includes an automatic induction (116) configured to be positioned on outer area of the first portion and the second portion of the shoe rest (102).

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053406 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SIZE ADJUSTABLE WALKING AID DEVICE

(51) International classification	:A61B0005000000, A61H0003040000, A61H0003000000, A63B0023120000, F16M0013000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Shiva Sharma</b>
(33) Name of priority country	:NA	<b>2)Dr. Sudheesh Shukla</b>
(86) International Application No	:NA	<b>3)Dr. Subrata Das</b>
Filing Date	:NA	<b>4)Dr. Preeti Kush</b>
(87) International Publication No	: NA	<b>5)Dr. Niladry Sekhar Ghosh</b>
(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 size adjustable walking aid device, comprising a frame 1 having a proximal and distal end in order to provide holding and gripping to a user, a pneumatically actuated telescopic rod 2 associated with artificial intelligence enabled image capturing module 3 installed at the distal end to adjust the frame 1 as per height of user, a slidable hand grip 4 configured with the frame 1 to provide gripping as per user hand length, an extendible padded unit 5 attached with the proximal end of the frame 1 for providing rest to shoulder, plurality of telescopic arms 7 installed in the base of frame 1 to provide support in case of extra loading, a vital sensor 8 engraved on the handgrip 4 to measure vital parameters of the user.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053407 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : UNIVERSAL CHARGING DOCK DEVICE

(51) International classification	:H02J0007000000, H01R0031060000, H01L0041053000, A61B0005020500, G01S0007481000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Vijay Maheshwari</b>
(86) International Application No	:NA	<b>3)Dr. Nishant Kumar Pathak</b>
Filing Date	:NA	<b>4)Kuldeep Chauhan</b>
(87) International Publication No	: NA	<b>5)Dr. Tarun Kr. Sharma</b>
(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 an universal charging dock device, comprising a mounting plate 1 having a first 2 and second portions 3, an AI enabled image capturing unit 5 integrated along with sensor 4, to determine presence of appliance and type of port fitted to the appliance, a gripping unit 6 mounted at second portion to hold the appliance, a rotating plate 9 mounted over a reciprocating base installed at first portion 2,the plate 9 is fabricated with different type of charging pins 12, a second motor 13 incorporated with the rotating plate 9, to align respective charging pin 12 with port, a telescopic unit 10 integrated along with the rotating plate 9, to lift the rotating plate 9 and plug in the pin with the port for charging the appliance, a buzzer 11 is installed at plate 1 to notify the user upon completed charging.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053408 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC SKIN PARASITE REMOVAL DEVICE

(51) International classification	:A61B0005000000, B25J0019020000, B25J0013080000, G06F0003010000, G06K0009000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Nishant Kumar Pathak</b>
(86) International Application No	:NA	<b>3)Vijay Maheshwari</b>
Filing Date	:NA	<b>4)Dr. Tarun Kr. Sharma</b>
(87) International Publication No	: NA	<b>5)Nitin Kumar</b>
(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 an automatic skin parasite removal device including a handheld body 1 configured with an image capturing unit 2 for taking images of a parasite, a motorized plate 3 attached to a telescopic rod 4 for creating barrier between parasite and skin, a telescopic gripping unit 5 comprising of a motorized gripping element 13 and a telescopic rod 14 arranged on a horizontal slider 6 for removing parasite from skin, a pressure sensor 7 for detecting pressure applied by gripping unit 5, a tactile sensor 8 for detecting skin thickness, a set of containers 9, 10 for keeping sucked parasite and storing medical solution respectively and a nozzle 12 with an electric valve 15 integrated in the container 10 for spraying medical solution. .

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053409 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC BRUSH CLEANING DEVICE

(51) International classification	:A46B0017060000, A47L0011400000, A45D0024460000, A45D0024420000, A47L0025000000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Vijay Maheshwari</b>
(86) International Application No	:NA	<b>3)Dr. Nishant Kumar Pathak</b>
Filing Date	:NA	<b>4)Kuldeep Chauhan</b>
(87) International Publication No	: NA	<b>5)Dr. Tarun Kr. Sharma</b>
(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 an automatic brush cleaning device, comprising a receiving unit 1 associated with the device, an artificial intelligence based imaging unit 2 is attach inside the receiving unit 1 to determines type of comb and presence of debris, multiple primary holding arms 3 installed inside the receiving unit 1 and controlled via microcontroller to hold the comb, a cleaning unit 4 having multiple compartments 5 designated for cleaning combs attached along with receiving unit 1, each of the compartment 5 incorporates secondary arm 7 with a specific configuration to receive the comb from the primary holding arm 3 and draw inside the compartment 5, multiple brushes 9 fabricated inside the compartments 5 to remove hair remains from teeth of the comb, multiple nozzles 10 installed inside the each compartments 5 to discharge cleaning liquid to remove the dust and debris present over the comb.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054284 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATED FIRE DETECTION AND CONTROLLING SYSTEM

(51) International classification	:G07C0009000000, G08B0029200000, G08B0017000000, A62C0037440000, G08B0029180000	(71)Name of Applicant : <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)LILHORE, Umesh Kumar</b>
(33) Name of priority country	:NA	<b>2)SIMAIYA, Sarita</b>
(86) International Application No	:NA	<b>3)KAUR, Amandeep</b>
Filing Date	:NA	<b>4)AHUJA, Rakesh</b>
(87) International Publication No	: NA	<b>5)SNEHI, Jyoti</b>
(61) Patent of Addition to Application Number:	:NA	<b>6)HARNAL, Shilpi</b>
Filing Date	:NA	<b>7)SANDHU, Jasminder</b>
(62) Divisional to Application Number	:NA	<b>8)SINGLA, Anshu</b>
Filing Date	:NA	<b>9)KAUSHAL, Chetna</b>
		<b>10)MANHAR, Advin</b>
		<b>11)AHMED, Mohammed Bakhtawar</b>

(57) Abstract :

The present disclosure provides a system 100 for detecting fire in a premises, the system include sensors 102 for detecting one or more fire attributes in a pre-defined area, and image capturing units 104 for capturing images of the pre-defined area in the premises. The system includes a processing unit 108 configured for analysing one or more fire attributes and the images to detect level of fire in the premises accurately. Upon detection of breach of at least one of the one or more attributes of fire, a fluid pump 112 is actuated to dispense fire suppressing agent in the area where fire is found. Simultaneously, the processing unit 108 commands a smart door and window control module 116 to control opening and closing of door and window to assist the people in the premises.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054289 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : VEHICLE USER BLOOD OXYGEN LEVEL AND BODY TEMPERATURE DETECTION AND ALERT SYSTEM

(51) International classification	:A61B0005145500, A61B0005000000, B60Q0009000000, B60Q0001500000, B60R0025102000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea Republic of Korea <b>2)KIA CORPORATION</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)S, Pradeep</b>
(33) Name of priority country	:NA	<b>2)S G, Vignesh Balaji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 an oximeter setup and infra-red temperature sensor on outside door handle of an automobile to measure the blood oxygen level & body temperature of the passengers. Once the doors of the vehicle are unlocked using a key fob, the LED lights of the oxygen sensor (1) mounted on the door outside handle (101) start emitting light (201, 202). Simultaneously, the IR temperature (2) sensor starts emitting infra-red light. Upon attempting to open a door using the door handle, the photo sensor of the oximeter (1) measures the transmitted values and signals are sent to the transmitter (3). At the same time, the IR sensor of the temperature sensor measures the temperature and transmits the measured values to the transmitter (3). The integrated transmitter (3) outputs the signal to the body control module (4) as a percentage of the oxygen saturation of the passenger and in Degree Celsius or Fahrenheit (for temperature). In case the values for oxygen saturation and temperature are below or above the pre-set values, the system triggers an alert in the form of a message flashed on the display of the vehicle. Simultaneously, the system also triggers an alarm to notify the driver of a potential threat.

No. of Pages : 14 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054290 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IMPROVED SWITCH MODULE FOR AUTOMOBILE TRANSMISSION SYSTEMS

(51) International classification	:F16H0059020000, B60R0025200000, F16H0059040000, B60T0013740000, F16K0005060000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea <b>2)KIA CORPORATION</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)KRISHNA, Aluri Vamsee</b>
(33) Name of priority country	:NA	<b>2)MIN, Jeongseon</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 an improved switch module for automobile transmission to assist remote engine start and stop systems. The switch module assembly (301) according to a preferred embodiment may comprise an actuating arm (302) extending from the transmission gear lever, a spherical slider (304), and a sensor housing (303). The spherical slider (304) is encased inside the sensor housing (303) and is in the form of a hemisphere. The spherical slider (304) comprises a switch (306) which rests on the abutting extension terminally linked to the inside body of the hemisphere of the spherical slider on one end and sensor housing (303) on the other end. The spherical slider (304) comprises a spring (305) fixed at a terminal end to the inside body of the hemisphere, preferably at the center of the hemisphere. The sensor housing (303) may be screwed to the bracket housing of the transmission system using a screw assembly (307).

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054291 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : NEUTRAL RECOGNITION SENSOR MODULE FOR RESS

(51) International classification	:F16H0059020000, F02N0011080000, F16H0059040000, A61F0002060000, A61F0002954000	(71)Name of Applicant : <b>1)HYUNDAI MOTOR COMPANY</b> Address of Applicant :12, Heolleung-ro, Seocho-gu, Seoul 06797, Republic of Korea <b>2)KIA CORPORATION</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)HARIDWARKAR, Hari Gothra</b>
(33) Name of priority country	:NA	<b>2)KRISHNA, Aluri Vamsee</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 sensor module for detecting the neutral position of the gear shift lever in a remote start vehicle. The module comprises a housing provided with sphered seats, a bifurcated rod provided with a spherical ball at end, a sensor to sense the movement of the bifurcated rod, wherein the bifurcations of the bifurcated rod hold the shift lever, wherein the sensor is fitted in the housing around the movement of the bifurcated rod, and wherein the sensor sends a signal to the electrical control unit when the bifurcated rod is in neutral recognition zone.

No. of Pages : 21 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053410 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE DEVICE FOR PRODUCING SOOTHING SOUND

(51) International classification	:G01P0013000000, E06B0009680000, B63H0009060000, B60Q0005000000, G10H0001380000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. R.K. Jain</b>
Filing Date	:NA	<b>4)Shamshad Husain</b>
(87) International Publication No	: NA	<b>5)Rajesh Pandey</b>
(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 adaptive device for producing soothing sound including a hollow body 2 hanging from ceiling surface via multiple chords 1, plurality of freely movable metallic cylinders 3, a central disk 4 for producing sound, a sail 5 for moving the cylinders 3, a central chord 6 for hanging the sail 5 at first end 8, an auxiliary chord 7 attached to second end 9 of the sail 5, a rotor 10 and a shaft 11 for tilting the sail 5, a wind sensor 12 for detecting wind speed, a microcontroller for controlling all connected items, a light sensor 13 for determining light intensity, a plurality of extending rubberized blades 14 for eliminating sound, a motorized fan 15 and a pair of ducts 16 for flowing air.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111053411 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC BEANS SPROUTING AND VENDING DEVICE

(51) International classification	:A01C0001020000, A01D0041127000, B67D0001000000, A23B0009100000, G01N0001400000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Sandeep Kumar</b>
(33) Name of priority country	:NA	<b>2)Dr. Deepika Arora</b>
(86) International Application No	:NA	<b>3)Rupesh Kumar</b>
Filing Date	:NA	<b>4)Dr. Dinesh Kumar</b>
(87) International Publication No	: NA	<b>5)Dr. Niladry Sekhar Ghosh</b>
(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 an automatic beans sprouting and vending device comprising a body 1, a pair of sub-chambers 2, 3 with iris lid 4 fabricated underneath for storing/dispensing grain and water, a primary chamber 5 for keeping dispensed grain-water mixture, a first image capturing unit 6 for identifying a user, a temperature regulating unit 7 having Peltier unit 8 and temperature sensor 9 for maintaining temperature of water, a suction unit 10 for dispensing out water from primary chamber 5, a sensor 12 for detecting water-level, a secondary chamber 13 with pores 14 for ventilation and a layer of cloth 18 from inside for germination, another image capturing unit 15 for detecting complete germination of grain, a screen 16 for giving input to the device and receiving notifications, and a weight sensor 17 for measuring amount of grain and water to be dispensed into the primary chamber 5.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054443 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A NOVEL POLYHERBAL PREPARATION (POL-6) FOR THE TREATMENT OF ALCOHOL WITHDRAWAL SYMPTOMS

(51) International classification	:A61K0036530000, A61K0036810000, A61K0036230000, A61K0036380000, A61K0036185000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Lalit Sharma</b>
(33) Name of priority country	:NA	<b>2)Dr. Aditi Sharma</b>
(86) International Application No	:NA	<b>3)Dr. Girdhari Lal Gupta</b>
Filing Date	:NA	<b>4)Dr. Gopal Singh Bisht</b>
(87) 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 :

Present subject matter relates to a method (100) for a novel polyherbal preparation (POL-6) for the treatment of alcohol withdrawal symptoms. The method comprises extracting plant material from a plurality of plants, wherein the plurality of plants include a Bacopa monnieri plant, a Hypericum perforatum plant, a Centella asiatica plant, a Withania somnifera plant, a Camellia sinensis plant, and an Ocimum sanctum plant. Further, the method comprises drying the extracted plant material. Further, the method comprises mixing all the dried plant material in a predefined ratio, wherein the predefined ratio is 2:1:2:2:1:2. Further, the method comprises filtering the mixed dried plant material, wherein the filtering is performed by a sieve of mesh size 40. Thereafter, the method comprises storing the filtered dried plant material in a firmly clean container to avoid any heat and moisture and using the filtered dried plant material in treating the alcohol withdrawal symptoms.

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054450 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN ARRANGEMENT TO DETECT AND REGULATE WATER FLOW IN A WATER PURIFIER

(51) International classification	:C02F0001000000, F04D0015000000, F04D0015020000, F04B0049200000, B67D0001120000	(71)Name of Applicant : <b>1)LG ELECTRONICS INC.</b> Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Raghuramakrishnan K</b>
(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 :

An arrangement to detect and regulate water flow in a water purifier (100) is provided. The arrangement includes a pump (102) to regulate flow of the water inside the water purifier (100), a sensor (104) configured to detect power consumed by the pump (102) for a predetermined time period and a control unit (106) configured to operate the pump (102) . Further, the control unit (106) operates the pump (102) based on the power consumption of the pump (102) detected by the sensor (104), enabling in detecting the flow of water based on the detected power consumption of the pump (102) and operating the pump (102) only during the water flow.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054451 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SELF-CLOSING DETERGENT BOX ASSEMBLY IN A WASHING MACHINE

(51) International classification	:D06F0039020000, D06F0039140000, D06F0039080000, B65D0006060000, E01H0001120000	(71) <b>Name of Applicant :</b> <b>1)LG ELECTRONICS INC.</b> Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SINGH Abhishek</b>
(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 self-closing detergent box assembly (100) in a washing machine is provided. The assembly (100) includes a container (102) for holding the detergent. The container (102) is mounted on a spring (104), the spring (104) provides a predefined extensional spring force to the container (102) and a lid (106) provided on top of the washing machine, the lid (106) is operationally coupled to a deflector (108). The lid (106) transitions between an open position and a closed position, in the open position a snap holds the container (102) against the spring force for filling the detergent and in transition from the open position to the closed position, the lid (106) engages with the deflector (108) to release the snap facilitating the spring force to pull back the container (102).

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054471 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : GRANULES CONTAINING POSACONAZOLE

(51) International classification	:C07D0405140000, A61K0031496000, A61K0009160000, C07D0405060000, A61K0009500000	(71)Name of Applicant : <b>1)Alfred E. Tiefenbacher (GmbH &amp; Co. KG)</b> Address of Applicant :Van-der-Smissen-Straße 1, 22767 Hamburg, Germany Germany
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Srikanth Velchuri</b>
(33) Name of priority country	:NA	<b>2)Vamshi Ramana Prathap</b>
(86) International Application No	:NA	<b>3)Venkatasimhadri Naidu Kalamata</b>
Filing Date	:NA	<b>4)Gaith Zoubari</b>
(87) International Publication No	: NA	<b>5)Ansgar Fitzner</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Bala Ramesha Chary Rallabandi</b>
Filing Date	:NA	<b>7)Kiran Kumar Madallapalli</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to granules prepared by subjecting a mixture containing posaconazole, an enteric polymer and a non-enteric polymer to hot-melt extrusion, whereby the granules have a specific particle size distribution and contain the drug in molecularly dispersed form, and a gastro-resistant, optionally film-coated tablet prepared from the granules.

No. of Pages : 51 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054475 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADAPTIVE ONTOLOGY DRIVEN DIMENSIONS ACQUISITION, AUTOMATED SCHEMA CREATION, AND ENRICHED DATA IN TIME SERIES DATABASES

(51) International classification	:G06F0016360000, G06F0016210000, G06F0016250000, G06F0016901000, G06F0016245800	(71)Name of Applicant : <b>1)HONEYWELL INTERNATIONAL INC.</b> Address of Applicant :855 S. Mint Street, Charlotte, NC – 28202, UNITED STATES OF AMERICA U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Acharya, Bhabesh Chandra</b>
(32) Priority Date	:NA	<b>2)Thaykandy, Prajosh</b>
(33) Name of priority country	:NA	<b>3)Akella, Swaminath Balaji</b>
(86) International Application No	:NA	<b>4)Patil, Prithviraj Shivajirao</b>
Filing Date	:NA	<b>5)Singh, Gurender</b>
(87) 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 :

Various embodiments described herein relate to a contextuahzed time series database and/or contextuahzed time series data consumption. In this regard, a request to generate contextuahzed time series data related to one or more assets is received. The request includes a user identifier indicating an identity of a user associated with the request. In response to the request, telemetry data associated with the one or more assets is contextuahzed, based on metadata and a set of data dimensionality filters associated with the user identifier, to generate the contextuahzed time series data. Furthermore, the contextuahzed time series data is allocated within a datastore configured for the user identifier to facilitate obtaining one or more insights with respect to the contextuahzed time series data.

No. of Pages : 78 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054489 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A STRESS AND RELATIVE MOTION MONITORING SCAFFOLDING FOR CIVIL CONSTRUCTION SITES

(51) International classification	:G01L0005000000, E04G0005120000, E04G0007300000, E04G0001150000, G01B0011160000	(71) <b>Name of Applicant :</b> <b>1)Amity University</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SATYAJIT NATH</b>
(33) Name of priority country	:NA	<b>2)RAMAKAR JHA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 structural stress detection and structural safety management and in particular, relates to scaffolding stress monitoring device for construction sites. This scaffolding stress monitoring device minimizes the number of the accidents associated with the failure of the scaffolding. This device has three different module, the first module measures the compressive stress generated on any scaffolding, the second module detects the buckling status through the measuring the flexural stress developed on the scaffolding, and the third module detects and analyses if the scaffolding have moved/dislocated (vertical or horizontal) from its original specified position due to overloading, settlement of the base on which the scaffolding is resting.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054490 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DEVELOPMENT AND REPURPOSING OF CARBAPENEMS ANTIBIOTIC BASED ENCAPSULATED NANOPARTICLES AGAINST MULTI-DRUG RESISTANT BACTERIA

(51) International classification	:A61K0047240000, A61K0031407000, A61K0045060000, A61K0031430000, A61K0009510000	(71)Name of Applicant : <b>1)Amity University</b> Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Rajesh Singh Tomar</b>
(32) Priority Date	:NA	<b>2)Raghendra Kumar Mishra</b>
(33) Name of priority country	:NA	<b>3)Anurag Jyoti</b>
(86) International Application No	:NA	<b>4)Vikas Shrivastava</b>
Filing Date	:NA	<b>5)Neha Sharma</b>
(87) 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 and repurposing of carbapenems antibiotic based encapsulated nanoparticles. The present invention in particular relates to carbapenems antibiotic based encapsulated nanoparticles against multi-drug resistant bacteria. Moreover, the present invention helps in drug repurposing to control emergence of multi-drug resistant bacteria with currently available antibiotics. Furthermore, the present invention helps to synthesize a novel, emerging, fast and safe alternative treatment option against biofilm forming multidrug resistant bacteria and also provides an insight method for stabilization of nanoparticles.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054056 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANTI-BLOCKAGE DRAINAGE DEVICE

(51) International classification	:B01D0017020000, E03F0005040000, E03B0001040000, B01D0035120000, F24S0023790000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering and Technology (Deemed to be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Dr. Aniket Kumar</b>
(86) International Application No	:NA	<b>3)Dr. Shiva Sharma</b>
Filing Date	:NA	<b>4)Dr. R.K. Jain</b>
(87) International Publication No	: NA	<b>5)Dr. Jasvir Singh Rana</b>
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An anti-blockage drainage device includes, a compact body 1 positioned on a drain strainer 2 via suction cups, multiple electronic valves 3 for allowing sewer to flow inside the body 1, an electric pump 10 for pumping the collected sewer, a chamber 4 having a primary and secondary portions, housed inside the body 1, both of the portions are open in nature and are assembled in such that the pumped water received from the primary portion and is dispersed from the secondary portion towards the drain strainer 2 via three sets of filters arranged to block waste material and allow liquid to flow towards the secondary portions, each set comprises of two filters 5 that are hingedly connected to inner peripheral portion of the chamber 4 via a motorized hinge 6, an ultrasonic sensor works in synchronization with a microcontroller for sensing amount of waste material over the filters 5.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054057 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AUTOMATIC WALL PLASTERING DEVICE

(51) International classification	:E04F0021080000, E04F0021180000, G09B0019000000, B28C0007040000, E01C0023020000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Rahit Vats</b>
(86) International Application No	:NA	<b>3)Mridul</b>
Filing Date	:NA	<b>4)Rajiv kumar</b>
(87) International Publication No	: NA	<b>5)Dr. Mamta Bansal</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automatic wall plastering device includes a four bar frame 1 having two pairs of telescopic tubes 2 and suction cups 3, an artificial intelligence based imaging unit 4 that captures and processes wall type and signals to a microcontroller to coordinate movement of the frame 1 on a wall by alternatively activating/deactivating one of the pair of tubes 2 and cups 3, a hopper 5 assembled in between the frame 1 by means of multiple telescopic rods, to move the hopper 5 bi-directionally within the frame 1, a container 6 fabricated with multiple sub compartments 8 containing different solutions, employed with a mixer 16 for forming plastering mixture, formed mixture is supplied to the hopper 5, a compressor 10 to dispense pressurized air inside the hopper 5 to spread mixture over wall, and a pair of planers 11 to apply plastering mixture to smoothen the plaster.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054058 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BRUSH CLEANING AND MAINTENANCE SYSTEM

(51) International classification	:A46B0017060000, A61L0002240000, B65D0025020000, B08B0009087000, B08B0001040000	(71)Name of Applicant : <b>1)Shobhit Institute of Engineering &amp; Technology (Deemed to-be University)</b> Address of Applicant :NH-58, Dulhera Marg, Modipuram, Meerut-250110, Uttar Pradesh, India. Uttar Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ajay Rana</b>
(33) Name of priority country	:NA	<b>2)Rahit Vats</b>
(86) International Application No	:NA	<b>3)Mridul</b>
Filing Date	:NA	<b>4)Rajiv kumar</b>
(87) International Publication No	: NA	<b>5)Dr. Niraj Singhal</b>
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A brush cleaning and maintenance system includes, a body having a first 1 and second portion 2, the second portion 2 installed with chambers (3,12) for storage of water, chemical solutions and waste, two telescopic grippers 5 installed within a primary portion for holding a brush 18 placed within the container, the container includes a base plate 15 made up of a cleaning pad 11 against which the brush 18 is rubbed by the grippers 5 for performing cleaning, an artificial intelligence based imaging unit 7 positioned within the container for capturing and processing images of the brush 18 to evaluate amount of residual present on the brush 18, wherein based on the amount of residual, the microcontroller synchronously actuates corresponding pump for dispensing suitable liquid for cleaning of the brush 18, a secondary container mounted adjacent to the container and employed with telescopic clamping units 8 for holding brushes.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054081 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SUBSTITUTED DIAZENYLANILINES AS FLUORESCENCE QUENCHER AND USE THEREOF

(51) International classification	:C12Q0001681600, G01N0021640000, G01N0033580000, G01N0033533000, C12Q0001680000	(71) <b>Name of Applicant :</b> <b>1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH</b> Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi Marg New Delhi Delhi India Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Atul Goel</b>
(33) Name of priority country	:NA	<b>2)Kundan Singh Rawat</b>
(86) International Application No	:NA	<b>3)Priyanka Pandey</b>
Filing Date	:NA	<b>4)Ashish Arora</b>
(87) International Publication No	: NA	<b>5)Niti Kumar</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Damodara Reddy Nandarapu</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to substituted-diazenylanilines of the general formula I and their nucleotide conjugates, complexes, salts which may be used potentially as fluorescent quenchers in chemical and biological sciences such as cell imaging applications, diagnostics, fluorescent and non-fluorescent tags, pharmaceuticals and other useful applications, and a process of preparing said new compounds. More particularly, the present invention relates to 2,2'-((4-((2,5-disubstituted-4-((4-nitrophenyl)diazenyl)phenyl)diazenyl)-2/3-substituted-phenyl)azanediy)diolkanol, processes for preparing the said compounds and their uses as fluorescent quenchers in cell imaging applications, diagnostics, fluorescent and non-fluorescent tags, pharmaceuticals and other useful applications.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054308 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGING POWER OF RADIO UNIT (RU)

(51) International classification	:H01Q0001520000, H01Q0021280000, H01Q0001240000, A47L0013160000, G06K0001120000	(71) <b>Name of Applicant :</b> <b>1)Sterlite Technologies Limited</b> Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower, Sector 29,Gurugram, Haryana – 122002 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vikas Jain</b>
(33) Name of priority country	:NA	<b>2)Priyanka Khangarot</b>
(86) International Application No	:NA	<b>3)Anand Kumar</b>
Filing Date	:NA	<b>4)Nitesh Kumar</b>
(87) 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 multiple-input multiple-output (MIMO) antenna element. The multiple-input multiple-output (MIMO) antenna element includes a radiating unit (202) having a first strip element (206), a second strip element (208) and a third strip element (210). In addition, the multiple-input multiple-output (MIMO) antenna element includes a grounding unit (204) having a grounding strip element positioned adjacent to the first strip element (206). The second strip element (208) connects the first strip element (206) with to the third strip element (210). The grounding strip element and the radiating unit (202) are separated by a gap.

No. of Pages : 39 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054309 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : N.: RESIN COMPOSITION AND PROCESS FOR PRODUCING THE SAME

(51) International classification	:C08L0067020000, D06M0015647000, A61L0015260000, C07C0229060000, C08G0018080000	(71)Name of Applicant : <b>1)INDIAN INSTITUTE OF TECHNOLOGY DELHI</b> Address of Applicant :Hauz Khas, New Delhi-110016, (India) Delhi India <b>2)RESIL CHEMICALS PRIVATE LIMITED</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)AGRAWAL, Ashwini K.</b>
(33) Name of priority country	:NA	<b>2)JASSAL, Manjeet</b>
(86) International Application No	:NA	<b>3)AGARWAL, Rashi</b>
Filing Date	:NA	<b>4)ARORA, Varun</b>
(87) International Publication No	: NA	<b>5)SRINIVASAN, Ganesh</b>
(61) Patent of Addition to Application Number	:NA	<b>6)PAUL, Sangita</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to oligomeric resin comprising oligoesters with hydrophilic end groups and a process for preparation of the same that can impart hydrophilic property to textiles when applied as a coating material. The present disclosure also relates to a method for coating textiles with oligomeric resin comprising oligoesters with hydrophilic end groups.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054328 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : OPTICAL FIBRE CABLE FOR AIR BLOWING INSTALLATION

(51) International classification	:G02B0006440000, D07B0001160000, G01V0001200000, G02B0006520000, H02G0015060000	(71)Name of Applicant : <b>1)Sterlite Technologies Limited</b> Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower Sector 29,Gurugram, Haryana, India 122002 Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Sourabh Singh Panwar</b>
(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 :

The present disclosure provides an optical fibre cable (100) with high blowing performance. The optical fibre cable (100) includes a plurality of optical fibres (102), a sheath (104) and one or more strength members (106). The sheath (104) envelops the plurality of optical fibres (102). The one or more strength members (106) are embedded in the sheath (104). The one or more strength members (106) embedded in the sheath (104) provides a blowing ratio to the optical fibre cable (100) in a range of about 20 to 45. The blowing ratio is a ratio of cross-sectional area of the sheath (104) to total cross-sectional area of the embedded strength members (106).

No. of Pages : 20 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054352 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS TO OBTAIN HIGH VALUE POLYPROPYLENE FROM POLYPROPYLENE RECYCLATE

(51) International classification	:C08K0005070000, C08K0005098000, B29C0048920000, C08K0005090000, C08K0005390000	(71) <b>Name of Applicant :</b> <b>1)HPCL-MITTAL ENERGY LTD.</b> Address of Applicant :CUSTOMER SERVICE & DEVELOPMENT CENTRE, PLOT A27, SECTOR 65, GAUTAM BUDH NAGAR, NOIDA, 201301, UTTAR PRADESH, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRIYANKA SINGH</b>
(33) Name of priority country	:NA	<b>2)SAIKAT BANERJEE</b>
(86) International Application No	:NA	<b>3)VINEET KUMAR GUPTA</b>
Filing Date	:NA	
(87) 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 process for obtaining a high value polypropylene from a polypropylene recyclate. The process comprises of compounding one or more additives with a polypropylene recyclate in a percentage range of 98.44 %wt to 99.67 %wt and extruding the compounded polypropylene composition with the one or more additives in a twin screw extruder at a temperature in the range of 190°C to 220°C. Further the one or more additives comprises of an unsaturated carboxylic acid zinc salt in a percentage range of 0.3% %wt to 1.5 %wt and a phosphate ester compound in a percentage range of 0.03 %wt to 0.06 %wt. The unsaturated carboxylic acid zinc salt facilitates dynamic cross-linking and the phosphate ester compound facilitates the effect of nucleation, wherein the nucleation and dynamic cross-linking results in a synergistic conversion of the polypropylene recyclate into a high value material.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054360 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ALARM LOG MANAGEMENT SYSTEM AND METHOD DURING FAILURE IN O-RAN

(51) International classification	:H04W0036160000, H04M0003080000, H02S0050000000, G06F0011320000, H04L0012240000	(71) <b>Name of Applicant :</b> <b>1)Sterlite Technologies Limited</b> Address of Applicant :IFFCO Tower, 3rd Floor, Plot No. 3, Sector 29, Gurgaon, Haryana - 122002, India Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Savnish Singh</b>
(33) Name of priority country	:NA	<b>2)Narendra Gadgil</b>
(86) International Application No	:NA	<b>3)Nitesh Kumar</b>
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 :

The present disclosure provides a method and a system for managing fault using logged information associated with at least one alarm in an open radio access network (O-RAN) (100). The method includes creating a first alarm list comprising a first set of information associated with the at least one alarm, wherein the first set of information comprises a historical logged information associated with any one or both of activation and deactivation of the at least one alarm. Further, the method includes enabling an access to the first alarm list.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054493 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MACHINE VISION BASED ASSEMBLY LINE COMPONENTS IDENTIFICATION SYSTEM

(51) International classification	:G06K0009000000, G05B0019418000, G06K0009460000, G05B0019401000, G06F0009380000	(71)Name of Applicant : <b>1)Chairman, Defence Research &amp; Development Organisation (DRDO)</b> Address of Applicant :Ministry of Defence, Govt of India, Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi – 110011, India Delhi India <b>2)Birla Institute of Technology &amp; Science (BITS), Pilani</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Musthaq, Faisel</b>
(33) Name of priority country	:NA	<b>2)Kaki, Ramesh</b>
(86) International Application No	:NA	<b>3)Deshmukh, Sandip Shridharrao</b>
Filing Date	:NA	<b>4)Parimi, Chandu</b>
(87) International Publication No	: NA	<b>5)Ray, Tathagata</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Tandon, Praveen</b>
Filing Date	:NA	<b>7)Jha, Pramod Kumar</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to machine vision based system for identification of assembly line components. The system (100) comprises a test bed (102) for placing assembly line components (104). A top camera (108) and a side camera (110) are configured to capture a plurality of images of the assembly line components (104). The plurality of images is input to a processing unit (130) configured to classify the assembly line components (104) and determine dimensions of the assembly line components (104) based on one or more features of the assembly line components (104). The processing unit (130) utilizes a deep learning algorithm (302) to classify the fastening elements based on their lateral shape and features associated with head shape from lateral view and shaft threads. The classification performed by the deep learning algorithm (302) is utilized by an image processing algorithm to determine the dimensions of the assembly line components (104).

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054505 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DEEP BREATH INDICATOR

(51) International classification	:A61B0005000000, A61B0005055000, A44B0011000000, A62B0035000000, A61B0005080000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sushil Kumar</b>
(33) Name of priority country	:NA	<b>2)Shivanya Thakur</b>
(86) International Application No	:NA	<b>3)Sonia Kumari</b>
Filing Date	:NA	<b>4)Sakshi Guleria</b>
(87) 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 :

Present subject matter relates to a deep breath indicator (100). The deep breath indicator (100) comprising an adjustable belt (102) adapted to be worn on chest by a user. The adjustable belt (102) includes an adjustable buckle (104) for tightening the adjustable belt (102). In one embodiment, the adjustable buckle (104) is configured to be positioned in rear side of the adjustable belt (102). Further, the adjustable belt (102) includes a control unit (106) that is configured to be positioned at centre of the adjustable belt (102). The control unit (106) includes a strain gauge (108) for measuring heart and oxygen rate.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054541 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A CRASH BOX FOR CONTROLLED CRUSH

(51) International classification	:B60R0019340000, F16F0007000000, F16F0007120000, B25J0015020000, B60R0021090000	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Mr. Siddhartha Kushwaha</b>
(33) Name of priority country	:NA	<b>2)Mr. Praneet Kuber</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 crash box assembly 200 for vehicles is disclosed, having a crash box 202 with a base end 206 fixed with a long member of the vehicle and a free end 204 coupled to a bumper; and at least one cross link mechanism 208 configured between the base end 206 and the free end 204. Each cross link mechanism 208 having a pair of links 210 pivotally coupled to each other at generally a mid-point, and one end of the links 210 coupled to the base end 206 through set of first pivotal joints 214-1, 216-1 and other end coupled to the free end 204 through a set of second pivotal joints 214-2, 216-2 through a combination of fixed 214 and slidable pivotal joints 216. Unequal impact force on free end 204 is distributed through cross link mechanism 208 for balanced transfer and even crushing of the crash box 202.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054543 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MICRONIZED PHARMACEUTICAL FORMULATION COMPRISING IVERMECTIN AND DOXYCYCLINE

(51) International classification	:A61K0031650000, A61K0009160000, A61K0031704800, A61K0047100000, A61K0009480000	(71)Name of Applicant : <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)SINGH, Thakur Gurjeet</b>
(32) Priority Date	:NA	<b>2)NAGPAL, Manju</b>
(33) Name of priority country	:NA	<b>3)SINGH, Manjinder</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 pertains to a composition for treatment of COVID and related respiratory ailments, where the composition comprises a formulation of one or more mixtures, where a first mixture comprises one or more pharmaceutical ingredients that include Ivermectin, and Doxycycline in a predetermined proportion, and a second mixture that comprises one or more polymers identified as PLGA and PEG in a plurality of proportions. Further, the composition includes the first mixture comprising Ivermectin, and Doxycycline in a proportion of 6 to 20 respectively, and a second mixture includes PLGA and PEG in a proportion ranging from 50 to 200 in any or a combination of weight and volume.

No. of Pages : 28 No. of Claims : 6



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054544 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : COOLING DEVICE FOR A BATTERY AND A DC-DC CONVERTER OF VEHICLES

(51) International classification	:H01M0010613000, H01M0010625000, H01M0010655600, B60K0001000000, H01M0010656800	(71) <b>Name of Applicant :</b> <b>1)Daimler AG</b> Address of Applicant :70546, Stuttgart, Germany Germany
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sampath Shetty</b>
(33) Name of priority country	:NA	<b>2)Sreeram Nandakumar</b>
(86) International Application No	:NA	<b>3)Pritesh Astik</b>
Filing Date	:NA	<b>4)Vishwanath Hadapad</b>
(87) International Publication No	: NA	<b>5)Arun Katarapu</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Drashti Jikadia</b>
Filing Date	:NA	<b>7)Rajeswary Gopal</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cooling device 200 for a battery 204 and a DC-DC converter 206 of a vehicle is disclosed. The cooling device 200 includes a housing 202 to accommodate the battery 204 and the DC-DC converter 206, first ducts 214 and second ducts 216. At one end, the first ducts 214 are coupled to a side wall 208 of the housing 202 and other ends of the first ducts 214 open in a passenger cabin of the vehicle to allow flow of cabin air into the housing 202 for cooling the battery 204 and the DC-DC converter 206. At one end, the second ducts 216 are coupled to the side wall 208 of the housing 202, with other ends open to outside of the vehicle to draw ram air into the housing 202 to cool the battery 204 and the DC-DC converter 206 when the vehicle is in motion.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054082 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A PROCESS TO PREPARE POLYGALACTOFUCOPYRANOSE COMPOSITION FROM BROWN SEAWEED TURBINARIA ORNATA WITH APOPTOTIC EFFECT ON HUMAN LIVER CANCER AND HUMAN BREAST CANCER CELL LINES

(51) International classification	:C08B0037000000, A61K0038480000, A61K0036324000, A23L0017600000, G01N0001400000	(71)Name of Applicant : <b>1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH</b> Address of Applicant :Krishi Bhavan, Dr. Rajendra Prasad Road, New Delhi-110 001, India Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)KAJAL CHAKRABORTY</b>
(33) Name of priority country	:NA	<b>2)SHUBHAJIT DHARA</b>
(86) International Application No	:NA	<b>3)ACHAMVEETIL GOPALAKRISHNAN</b>
Filing Date	:NA	
(87) 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 titled A process to prepare polygalactofucopyranose composition from brown seaweed T. ornata with apoptotic effect on human liver cancer and human breast cancer cell lines discloses a process of preparing a seaweed concentrate from Turbinaria ornata belonging to Phaeophyceae with anticancer properties. The present invention disclosed anticancer composition comprising of [?1)-O-4-SO<sub>3</sub>--(3?1)-a-fucopyranose-(3?) as main branch with [?1)-6-O-acetyl-β-galactopyranose-(4?) as side branch connected to C-4 position of (1?3)-a-fucopyranose unit purified from T. ornata by following a sequel of purification steps from the said seaweed concentrate, to prevent the growth of tumor cells by the process of apoptosis; and to increase the shelf-life of the product by using different proportions of synergistically supported natural antioxidant mix.

No. of Pages : 44 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054161 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM TO IDENTIFY OBJECTIVES FROM PATENT DOCUMENTS

(51) International classification	:G06F0016310000, G06F0016245700, G06F0016330000, G06N0020000000, H04L0012823000	(71) <b>Name of Applicant :</b> <b>1)GREYB RESEARCH PRIVATE LIMITED</b> Address of Applicant :3130 P, Level 2 Sector 22D Chandigarh Chandigarh INDIA 160022 Punjab India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MAHESH MAAN</b>
(33) Name of priority country	:NA	<b>2)SHIKHAR VERMA</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 a system for identifying an objective from documents is disclosed. In some embodiment, the method includes determining (304) a correlation of each of a plurality of keywords extracted from a set of documents with respect to each class within a set of predefined classes. The method further includes determining (306) a first set of keywords from the plurality of keywords. The method further includes identifying (308) a set of data samples comprising a first plurality of sentences and a second plurality of sentences. The method further includes computing (312) a statistical significance value of each keyword in the first set of keywords with respect to the first plurality of sentences. The method further includes generating (314) a first set of features by discarding at least one keyword from the first set of keywords. The method further includes training a machine learning model to identify an objective of a document.

No. of Pages : 37 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054162 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MAGNETIC TRIPPING COIL ASSEMBLY FOR CIRCUIT BREAKER

(51) International classification	:H01H0050200000, F16M0011200000, H01H0071240000, H01F0027060000, H01H0071120000	(71)Name of Applicant : <b>1)Schneider Electric India Private Limited</b> Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)TILALA, Siddharthkumar Nitinbhai</b>
(32) Priority Date	:NA	<b>2)RAJHANS, Rupesh Subhashrao</b>
(33) Name of priority country	:NA	<b>3)CHHAYA, Pravin Kanji</b>
(86) International Application No	:NA	<b>4)BEHURA, Rajesh Kumar</b>
Filing Date	:NA	<b>5)GAVHANE, Pratik Ashok</b>
(87) International Publication No	: NA	<b>6)DACHEWAR, Kshitij Rajesh</b>
(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 magnetic tripping coil assembly. The magnetic tripping coil assembly includes a mounting frame. A magnetic coil configured on the mounting frame, and the magnetic coil comprises a plunger. A bracket pivotally configured with the mounting frame such that a first end is configured to be pressed by the plunger. The bracket comprises an extended element at the first end. A trip shaft positioned below the extended element and configured to be rotated corresponding to the pressing of the first end to facilitate circuit breaker tripping. A rest link operatively configured with a second end of the bracket, and configured to reset the plunger. A latch assembly is operatively configured with the mounting frame, and includes a latch operatively configured with the mounting frame, and the latch comprises a third end and a fourth end, the third end is elastically coupled with the mounting frame.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054191 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : VEHICLE

(51) International classification	:B60K0015035000, B60K0015040000, F02M0037000000, B60K0015030000, A61F0002844000	(71) <b>Name of Applicant :</b> <b>1)Hero MotoCorp Limited</b> Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi, India, Delhi India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MAHAJAN, Vishal</b>
(33) Name of priority country	:NA	<b>2)GUPTA, Ankit</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 vehicle (100) comprising a body frame (102), a power unit (123), a fuel tank (130), a breather tube (200) and at-least one connector member (250). The breather tube (200) comprising a first end (205) fluidically connected to the fuel tank (130), and a second end (210) provided at a lower portion of the vehicle (100). The at-least one connector member (250) is detachably affixed to the breather tube (200) in between the first end (205) and the second end (210). The at-least one connector member (250) comprises at-least one opening port (251, 252). The at-least one opening port (251, 252) is adapted to allow flow of atmospheric air between an external atmosphere (A) and the fuel tank (130). With the present invention, the at-least one connector member (250) ensures continuity to the breather provision of the breather tube (200) with minimal chance of foreign materials entry into the breather tube (200).

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054192 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : VEHICLE

(51) International classification :B60R0025040000,  
B60R0007040000,  
E05B0085060000,  
B60R0025200000,  
E05B0083160000

(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

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(72)Name of Inventor :

**1)PATHANIA, Hardeep Singh**

**2)RAJ, Nikhil**

(57) Abstract :

The present invention having a vehicle (100) comprising a body frame (130), a seat (108), a storage compartment (170), a latch (53), a lock (600), a key (400) and a combined key (300). The seat (108) comprising a hook (52). The latch (53) is disposed below the seat (108), and operably connected and disconnected to the hook (52) of the seat (108). The lock (600) operates the latch (53) through the key (400). The combined key (300) is adapted to selectively enable and disable the latch (53) to open and close the seat (108). The combined key (300) is mounted to one of the body frame (130) and the storage compartment (170). With the present invention, user has the access of the storage compartment (170) even when the user lost the key (400) without affecting the aesthetics of the vehicle (100) and without causing inconvenience to the user.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054193 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : HANDLE BAR OF VEHICLE

(51) International classification :B62K0021120000,  
H02G0003140000,  
B62J0001280000,  
F25D0023020000,  
F16L0003100000

(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 Delhi  
India

(72)Name of Inventor :

**1)PANDEY, Anjani Kumar**

**2)SHARMA, Vijay Kumar**

(57) Abstract :

The vehicle (100) comprising a body frame (102) and a handle bar (200). The body frame (102) comprising a bridge member (400). The handle bar (200) comprising a central bar portion (212), at-least one upper bracket member (216, 218) and at-least one lower bracket member (236, 238). The bridge member (400) comprising at-least one riser (416, 418) and at-least one moveable member (452, 454). The at-least one riser (416, 418) comprises at-least one first slot (416a, 418a) and at-least one second slot (416b, 418b). The at-least one moveable member (452,454) is configured to be disposed in one of the at-least one first slot (416a, 418a) and at-least one second slot (416b, 418b). A first height (HRI, HLI) of the at-least one first slot (416a, 418a) and a second height (HR2, HL2) of the at-least one second slot (416b, 418b) are different. With the present invention, a height adjustment feature of the handle bar (200) is provided without affecting the aesthetics of the vehicle (100).

No. of Pages : 29 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054198 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGING POWER OF RADIO UNIT (RU)

(51) International classification	:H04B0017120000, H04W0024040000, H04W0024020000, H01Q0001240000, H04W0008220000	(71) <b>Name of Applicant :</b> <b>1)Sterlite Technologies Limited</b> Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower, Sector – 29, Gurugram, Haryana 122002 Haryana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Nitin Kumar</b>
(33) Name of priority country	:NA	<b>2)Manish Jamwal</b>
(86) International Application No	:NA	<b>3)Gurpreet Singh</b>
Filing Date	:NA	<b>4)Rishi Nandwana</b>
(87) 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 method and a system for managing the power of a radio unit (RU) (130) of a next generation NodeB (gNB) (100) operating in a wireless communication network. The RU comprising a plurality of transmitter and receiver (TRX) radio modules (134) for data processing. The method comprises determining a plurality of user equipment's (UE's) (150) serving a cell associated with said gNB., The method further includes periodically changing power of at least one TRX radio module from said plurality of TRX modules based on the determined plurality of UE's serving said cell associated with said gNB, where said the power of said at least one TRX radio module is periodically changed without shutting down said RU.

No. of Pages : 37 No. of Claims : 21



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054199 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MONITORING SYSTEM AND METHOD

(51) International classification	:H04N0007180000, G06K0009000000, G08B0013196000, B29C0064386000, B60R0011040000	(71) <b>Name of Applicant :</b> <b>1)Transportation IP Holdings, LLC</b> Address of Applicant :901 Main Avenue, Norwalk, Connecticut, 06851 U.S.A. U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Anthony D. Paul</b>
(33) Name of priority country	:NA	<b>2)Ankit Mathur</b>
(86) International Application No	:NA	<b>3)Milan Karunaratne</b>
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 :

A method of operating a monitoring system may include receiving details of an area to be monitored, and receiving one of a) position details of an asset moving within a field of view of the area to be monitored, or b) position details of a camera configured to monitor the area. The method may include determining one of c) a position of the camera responsive to receiving the position details of the asset moving within the field of view of the area; or d) a position of the asset moving within the field of view responsive to receiving the position details of the camera.

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202114001361 A

(19) INDIA

(22) Date of filing of Application :12/01/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A FOOD PLATE WITH GLASS HOLDER AND A HANDLE

(51) International classification	:A47G0019060000, A47G0019020000, A47G0023020000, B65G0049060000, A63B0021072000	(71)Name of Applicant : <b>1)MR. SINGH, ANGAD</b> Address of Applicant :10701, BALANTRE LANE, POTOMAC, MD, USA-20854 U.S.A. <b>2)MRS. KAUR, KANWAL JIT</b>
(31) Priority Document No	:16/729,891	(72)Name of Inventor :
(32) Priority Date	:30/12/2019	<b>1)MR. SINGH, ANGAD</b>
(33) Name of priority country	:U.S.A.	<b>2)MRS. KAUR, KANWAL JIT</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 Current invention discloses a food plate (1) with a glass holder (3) and a handle (2) in the middle. The person holds the plate and glass-holds combination with one hand around the handle. The handle (4) may be detachable from the plate, the glass holder, or both. The handle in the middle facilitates the food plate to be on one side, and the glass holder on the on the other side of the hand. Thus, the weight of the food in the plate on side of the hand, and the weight of the drink glass in the glass in the holder on the other side create a balanced configuration for holding. Since the food plate is not behind the drink glass. It does not interfere with the eating of the food.

No. of Pages : 8 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054589 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FUNCTIONAL YOGHURT ENRICHED WITH SPRAY DRIED WHEATGRASS POWDER

(51) International classification	:A23C0009130000, H01M0004131000, F26B0003120000, A23L0033105000, A23L0033135000	(71)Name of Applicant : <b>1)CHAUDHARY CHARAN SINGH HARYANA</b> <b>AGRICULTURAL UNIVERSITY</b> Address of Applicant :Hisar, Haryana Haryana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)ROOPA H</b>
(33) Name of priority country	:NA	<b>2)Dr. Anju Kumari</b>
(86) International Application No	:NA	<b>3)Dr. Anil Panghal</b>
Filing Date	:NA	<b>4)Dr. Rakesh Kumar</b>
(87) 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 kind of functional yoghurt enriched with wheatgrass where the wheatgrass juice is converted to form wheatgrass powder by using an advanced spray drying technology. The wheatgrass juice extracted from the five varieties of wheat - C306 (early sown wheat variety), WHI 124 (Late sown wheat variety), WHI 105 (Desi wheat variety) Red and Purple colored wheat varieties. The wheatgrass juice is mixed with maltodextrin (a carrier material) and spray dried to form wheatgrass powder. Further, the wheatgrass powder is blended with milk yoghurt to form an even mixture to prepare functional probiotic yoghurt.

No. of Pages : 21 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054614 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SHOES PROTECTOR

(51) International classification	:H01L0021027000, H05K0001140000, B29C0065020000, H01L0021033000, A43B0009180000	(71) <b>Name of Applicant :</b> <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Sushil Kumar</b>
(33) Name of priority country	:NA	<b>2)Shivanya Thakur</b>
(86) International Application No	:NA	<b>3)Sonia Kumari</b>
Filing Date	:NA	<b>4)Sakshi Guleria</b>
(87) 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 :

Present subject matter relates to a shoes protector (100). The shoes protector (100) comprising a body (102). The body (102) includes a top unit (104) of flexible material. In one embodiment, the top unit (104) includes an inlet (106) to receive all sized shoes. Further, the body (102) includes a bottom unit (108) coupled to the top unit (104). In one embodiment, the bottom unit (108) includes an antiskid base (110) made of a material different than the top unit (104).

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054615 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PINE NUT SHELLING DEVICE

(51) International classification :A23N0005000000,  
A23N0005010000,  
A61K0036150000,  
A23L0025000000,  
H02G0003080000

(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)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND  
MANAGEMENT SCIENCES**  
Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan –  
173229 (HP) Himachal Pradesh India

(72)Name of Inventor :  
**1)Sushil Kumar  
2)Shivanya Thakur  
3)Sonia Kumari  
4)Sakshi Guleria**

(57) Abstract :

Present subject matter relates to a pine nut shelling device (100). The pine nut shelling device (100) comprising a box (102). The box (102) includes a pine storage (104) disposed on an upper surface of the box (102), and configured to store pine nuts. Further, the box (102) includes at least two layers of groves (106) on the upper surface of the box (102), and configured to perform shelling of the pine nuts. Further, the box (102) includes an inlet (106) and an outlet (108) disposed on at least one side of the box (102) and is configured for collecting the pine nuts shelled by the at least two layers of groves (106). Further, the pine nut shelling device (100) is configured for shelling the pine nuts, using the box (102).

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054616 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INNOVATIVE STOVE STAND

(51) International classification	:G06K0019077000, H04W0084040000, A01K0015020000, E04D0013040000, C09D0133060000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sushil Kumar</b>
(33) Name of priority country	:NA	<b>2)Shivanya Thakur</b>
(86) International Application No	:NA	<b>3)Sonia Kumari</b>
Filing Date	:NA	<b>4)Sakshi Guleria</b>
(87) 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 :

Present subject matter relates to an innovative stove stand (100). The innovative stove stand (100) comprising a body (102). The body (102) includes a first unit (104). In one embodiment, the first unit (104) includes an inlet (106), an outlet (108) coupled to the inlet (106) through a hollow structure (110), and at least three trapezium-shaped components (112) disposed on the first unit (104) to form a triangular shape configured for placing utensil. Further, the body (102) includes a second unit (114) having one or more layers (116). In one embodiment, the one or more layers (116) include one or more gaps (118) at a predefined interval. Further, the first unit (104) and the second unit (110) are integrated as a single unit for forming the innovative stove stand (100) to utilize waste heat and to protect LPG flame from wind.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217028304 A

(19) INDIA

(22) Date of filing of Application :17/05/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROTEIN PURIFICATION

(51) International classification :A61K 39/12, C07K  
14/005  
(31) Priority Document No :62/932180  
(32) Priority Date :07/11/2019  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2020/081271  
Filing Date :06/11/2020  
(87) International Publication No :WO 2021/089770  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)JANSSEN VACCINES & PREVENTION B.V.**

Address of Applicant :Archimedesweg 4 2333 CN Leiden  
Netherlands

(72)Name of Inventor :

**1)POLILLI, Brian**

**2)RODE, Christopher**

**3)SCHREFFLER, John**

(57) Abstract :

Described herein is a process for protein purification, particularly a process for the purification of a glycoprotein, such as an HIV envelope protein, useful for vaccines or biotherapeutics.

No. of Pages : 31 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217034340 A

(19) INDIA

(22) Date of filing of Application :15/06/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF CODEBOOK SOUNDING REFERENCE SIGNAL (SRS) ANTENNA MAPPING TO IMPROVE UPLINK PERFORMANCE

(51) International classification :H04W 74/08  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2021/104111  
Filing Date :01/07/2021  
(87) International Publication No :WO 2023/272703  
(61) 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 U.S.A.

(72)Name of Inventor :

**1)ZHANG, Lijie**

**2)ZHANG, Lijie**

**3)SANG, Aimin J**

**4)WU, Yu**

**5)GAO, Yun**

**6)ZHANG, Ying**

**7)WANG, Zhiwei**

**8)MIAO, Qiang**

(57) Abstract :

Aspects are described for a user equipment (UE) comprising a transceiver configured to enable wireless communication with a base station; and a processor communicatively coupled to the transceiver. The processor is configured to receive a sounding reference signal (SRS) resource configuration from the base station, wherein the SRS resource configuration indicates at least a first SRS resource and a second SRS resource. The processor is further configured to transmit a first SRS via the first SRS resource to the base station using a first antenna coupled to the transceiver and transmit a second SRS via the second SRS resource to the base station using a second antenna coupled to the transceiver. The processor is further configured to receive an SRS resource indicator (SRI) from the base station based on at least one of the transmission of the first SRS or the second SRS; select the first antenna based on the SRI indicating the first SRS resource; and transmit uplink data to the base station using the first antenna.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054004 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR UNIFYING DE-IDENTIFIED DATA FROM MULTIPLE SOURCES

(51) International classification	:G16H0010600000, G06F0021620000, A61B0005020500, G06Q0030000000, G06F0016332000	(71) <b>Name of Applicant :</b> <b>1)Innovaccer Inc.</b> Address of Applicant :101 Mission Street, Suite 1950, San Francisco, CA, 94105, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KUMAR, Prashant</b>
(33) Name of priority country	:NA	<b>2)JAIN, Varun</b>
(86) International Application No	:NA	<b>3)SARAN, Mridul</b>
Filing Date	:NA	
(87) 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 a system are disclosed for generating a global identifier for linking or unifying a plurality of de-identified customer data received from multiple source environments. The plurality of customer data is de-identified based on a master salt and a master token is generated. The master token is encrypted using a source-encryption key to generate a source token. The source token is also encrypted using a target-encryption key to generate a transfer token. At a central environment or a central storage unit, the transfer token is decrypted and the source token is obtained. Thereafter, source token is decrypted to obtain the master token. At the central storage unit, the master token is hashed with a target salt to generate the global identifier which is subsequently used to unify the plurality of de-identified customer data.

No. of Pages : 24 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054014 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PORTABLE CPR VENTILATION MACHINE

(51) International classification	:A61M0016100000, A61M0016000000, A61H0031000000, B60N0002900000, B29L0031340000	(71)Name of Applicant : <b>1)SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES</b> Address of Applicant :Bajhol, PO Sultanpur, Distt. Solan – 173229 (HP) Himachal Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sushil Kumar</b>
(33) Name of priority country	:NA	<b>2)Shivanya Thakur</b>
(86) International Application No	:NA	<b>3)Sonia Kumari</b>
Filing Date	:NA	<b>4)Sakshi Guleria</b>
(87) 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 :

Present subject matter relates to a portable Cardiopulmonary Resuscitation (CPR) ventilation machine (100). The portable CPR ventilation machine (100) includes a body (102). In one embodiment, the body (102) includes a base support (104) and a side support (106) attached to the base support (104). The side support (106) includes adjustable supports (126) for adjusting the side support (106) and one or more gaps (130) at a predefined interval. Further, the portable CPR ventilation machine (100) includes a top unit (108), a control panel (110), an oxygen blender (112), a humidifier (114), bellows (116), a pressure pad (118), a battery (120), and a face mask (124). In one embodiment, the face mask (124) is configured to be coupled to the top unit (108) for supplying oxygen via a cable (126) running through one of the one or more flattened oval shaped gaps of the side support (106).

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043882 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LEAST-PRIVILEGE RESOURCE PERMISSION MANAGEMENT

(51) International classification	:G06F 21/62, H04L 29/06, G06F 21/60	(71)Name of Applicant :
(31) Priority Document No	:16/779939	<b>1)MICROSOFT TECHNOLOGY LICENSING, LLC</b>
(32) Priority Date	:03/02/2020	Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/US2021/014237	<b>1)BARGURY, Michael Zeev</b>
Filing Date	:20/01/2021	<b>2)MALKA, Gal</b>
(87) International Publication No	:WO 2021/158368	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The least-privilege permission needed for an identity, such as a user account, application, user group, or process, to access a resource of a tenant of a cloud service is determined from a predicted future resource usage. The predicted future resource usage is based on the resource usage history of an identity, the resource usage history of similar identities and the resource usage history of its peers. Similar identities are determined from node embeddings of a graph that represents the assigned permissions of an identity to a resource and the usage activity at a resource. The permissions needed to perform the predicted future resource usage is compared with the current permission assignments to determine the bare minimum permission that an identity needs for its ongoing and future workflow.

No. of Pages : 17 No. of Claims : 15

(54) Title of the invention : INTRAVASCULAR BLOOD PUMP WITH OUTFLOW HOSE

(51) International classification	:A61M 60/13, A61M 60/414, A61M 60/416, A61M 60/81, A61M 60/818	(71)Name of Applicant : <b>1)ABIOMED, INC.</b> Address of Applicant :22 Cherry Hill Drive Danvers, MA 01923 U.S.A.
(31) Priority Document No	:62/961017	(72)Name of Inventor :
(32) Priority Date	:14/01/2020	<b>1)SPANIER, Gerd</b>
(33) Name of priority country	:U.S.A.	<b>2)QI, Zhongwei</b>
(86) International Application No	:PCT/US2021/013153	<b>3)SIESS, Thorsten</b>
Filing Date	:13/01/2021	<b>4)KIRCHHOFF, Frank</b>
(87) International Publication No	:WO 2021/146227	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An intravascular blood pump (200) includes a pump housing (211) having an input port (214) and an output port (216). A relatively short intake cannula (226) may draw blood in through an intake port (230) and deliver the blood to the input port (214) of the pump housing (211). The intake cannula (226) is relatively short, to prevent excess hydraulic loss. An outflow hose (234) is connected to the output port (216) of the pump housing (211), so as to convey blood exiting the output port (216) through the outflow hose (234) in a downstream direction to a discharge port (238), e.g. into an aorta or other blood vessel (205). Despite the short intake cannula (226), the outflow hose (234) longitudinally separates the intake port (230) from the discharge port (238) sufficiently so the intake port (230) and the discharge port (238) remain on opposite sides of a heart valve, despite inadvertent longitudinal shifts of the intravascular heart pump (200).

No. of Pages : 25 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111054390 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PRESSER FOOT BOWL

(51) International classification :D06H0007000000,  
F02B0023060000,  
F16B0035000000,  
B26D0007180000,  
B26F0001380000

(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

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(72)Name of Inventor :

**1)Raj Vashisth**

**2)PANGHAL, Deepak**

**3)Prabir Jana**

**4)Dr. Shaileendra Kumar**

(57) Abstract :

The present invention discloses a presser foot bowl with two parts assembly for a CNC Fabric cutting machine. The presser foot bowl includes the first part [1] with a cavity at centre to receive the second part [2] with the means of fixing [6] and a second part [2] with a rectangular slot for guiding the cutting blade. Through the present invention, the second part [2] can be replaced many times once wear and tear occurs without damaging the first part [1].

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217022214 A

(19) INDIA

(22) Date of filing of Application :13/04/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LITHOPLASTY BALLOON SYSTEMS, DEVICES AND METHODS WITH ELECTRODE PAIRS HAVING MULTIPLE SPARK GAPS

(51) International classification :A61B 17/22, A61M 25/10, A61M 29/02, H01T 13/40, H01T 13/54  
(31) Priority Document No :63/229737  
(32) Priority Date :05/08/2021  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2022/071341  
Filing Date :25/03/2022  
(87) International Publication No :WO 2023/015047  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)BATCHELDER, Sam**

**2)BALLARD, John R.**

**3)D'AGOSTINO, Robert**

**4)BRENZEL, Michael P.**

**5)STAAB, Jason W.**

(57) Abstract :

Various embodiments of the systems, methods and devices are provided for breaking up calcified lesions in an anatomical conduit. More specifically, an electrical arc is generated between two spaced-apart electrodes disposed within a fluid-filled balloon, creating a subsonic pressure wave. In some embodiments, the electrodes comprise a plurality of points that allow the electrical arc to form at any one of the plurality of points to, among other things, extend the electrode life.

No. of Pages : 22 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217040603 A

(19) INDIA

(22) Date of filing of Application :15/07/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : REAL-TIME AND INDEPENDENT CYBER-ATTACK MONITORING AND AUTOMATIC CYBER-ATTACK RESPONSE SYSTEM

(51) International classification	:H04L 29/06, G06F 21/55, G05B 19/042
(31) Priority Document No	:62/964259
(32) Priority Date	:22/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/012573
Filing Date	:08/01/2021
(87) International Publication No	:WO 2021/150379
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)SIEMENS INDUSTRY, INC.**  
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Georgia 30005 U.S.A.  
(72)Name of Inventor :  
**1)CANTRELL, Allen**

(57) Abstract :

A cyber safety system that provides a real-time and independent cyber-attack monitoring and automatic cyber-attack response. The cyber safety system comprises a cyber monitoring logic to generate a cyber attack signal in response to a cyber attack event. The cyber safety system further comprises an automatic segmentation controller to generate a plurality of segmentation voltage signals or a plurality of segmentation messages in response to the cyber attack signal. The cyber safety system further comprises a plurality of firewalls configured to invoke firewall rulesets depending upon an input voltage signal level of the plurality of segmentation voltage signals or the plurality of segmentation messages to segment a site network in a plurality of site network segments and to control one or more physical devices as response to the cyber attack event.

No. of Pages : 19 No. of Claims : 21

(54) Title of the invention : VIA CYCLOADDITION BILATERALLY FUNCTIONALIZED ANTIBODIES

(51) International classification	:A61K 47/68, A61K 47/64, A61P 35/00	(71)Name of Applicant :
(31) Priority Document No	:20151543.4	<b>1)SYNAFFIX B.V.</b>
(32) Priority Date	:13/01/2020	Address of Applicant :Kloosterstraat 9 5349 AB Oss
(33) Name of priority country	:EPO	Netherlands
(86) International Application No	:PCT/EP2021/050598	(72)Name of Inventor :
Filing Date	:13/01/2021	<b>1)VAN DELFT, Floris Louis</b>
(87) International Publication No	:WO 2021/144314	<b>2)HOOGENBOOM, Jorin</b>
(61) Patent of Addition to Application Number	:NA	<b>3)POPAL, Sorraya</b>
Filing Date	:NA	<b>4)VAN SCHAIK, Arnoldus Jacobus</b>
(62) Divisional to Application Number	:NA	<b>5)DE BEVER, Laureen</b>
Filing Date	:NA	<b>6)VAN GEEL, Remon</b>
		<b>7)WIJDEVEN, Maria Antonia</b>
		<b>8)VAN BERKEL, Sander Sebastiaan</b>

(57) Abstract :

The present invention provides antibody-payload conjugates having a payload-to-antibody ratio of 1. The antibody-payload conjugate is according to structure (1): formula (1), wherein: - a, b, c and d are each independently 0 or 1; - e is an integer in the range of 0 - 10; - L1, L2 and L3 are linkers; - D is a payload; - BM is a branching moiety; - Su is a monosaccharide; - G is a monosaccharide moiety; - GlcNAc is an N-acetylglucosamine moiety; - Fuc is a fucose moiety; - Z are connecting groups. The invention further provides a method for preparing the antibody-payload conjugate according to the invention, an intermediate compound in that preparation method, and medical uses of the antibody-payload conjugate according to the invention.

No. of Pages : 124 No. of Claims : 25



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043819 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : NUCLEIC ACID SYNTHESIS METHOD USING SEGMENT-TYPE AMIDITE

(51) International classification :C07H 21/04  
(31) Priority Document No :62/958351  
(32) Priority Date :08/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/JP2021/000273  
Filing Date :07/01/2021  
(87) International Publication No :WO 2021/141072  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :  
**1)HIDA, Tomoyoshi**  
**2)IWAMOTO, Masafumi**  
**3)SAKAMOTO, Kota**  
**4)PAREDES, Eduardo**

(57) Abstract :

The purpose of the present invention is to provide a method for synthesizing an oligonucleotide by using a segment-type amidite. An oligonucleotide production method comprising at least one coupling step for coupling a nucleoside phosphoramidite with a thiol group or a hydroxyl group at the 3' or 5' of a nucleoside or a nucleotide in the presence of an activator, wherein, in the at least one coupling step, said nucleoside phosphoramidite has (a) two or more nucleoside portions or (b) at least one nucleoside portion and a linker portion, and said activator has a structure represented by formula (1) (in formula (1), X represents an organic base) or by formula (2) (in formula (2), R1 and R2 are each independently selected from the group consisting of H, straight chain or branched chain C1-7 alkyl groups and optionally substituted aromatic groups).

No. of Pages : 43 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217037338 A

(19) INDIA

(22) Date of filing of Application :29/06/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LIVE ATTENUATED LEISHMANIA PARASITE VACCINES WITH ENHANCED SAFETY CHARACTERISTICS

(51) International classification :A61K 39/008  
(31) Priority Document No :62/949080  
(32) Priority Date :17/12/2019  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2020/065745  
Filing Date :17/12/2020  
(87) International Publication No :WO 2021/127271  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)MATLASHEWSKI, Gregory**  
**4)ZHANG, Wen-Wei**  
**5)LYPACZEWSKI, Patrick**  
(72)Name of Inventor :  
**1)MATLASHEWSKI, Gregory**  
**2)ZHANG, Wen-Wei**  
**3)ZHANG, Wen-Wei**  
**4)LYPACZEWSKI, Patrick**  
**5)GANNAVARAM, Sreenivas**  
**6)KARMAKAR, Subir**  
**7)SATOSKAR, Abhay**

(57) Abstract :

Disclosed herein are modified Leishmania species and compositions thereof, such as live, attenuated organisms, immunogenic compositions, vaccines, and pharmaceutical compositions. Further disclosed are methods related to the modified Leishmania species, such as methods of production and methods of use.

No. of Pages : 56 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044294 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : TRANSPARENCY WINDOW AWARE SEQUENCE SELECTION AND TRANSMISSION PROCEDURE FOR DEVICE DISCOVERY AND RANGE ESTIMATION

(51) International classification :H04L 27/26, H04L 27/06, H04B 17/30, H04L 7/00, H01Q 1/00  
(31) Priority Document No :62/967718  
(32) Priority Date :30/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/015443  
Filing Date :28/01/2021  
(87) International Publication No :WO 2021/154960  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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**1)DEMIR, Alpaslan**  
**2)HAQUE, Tanbir**  
**3)PRAGADA, Ravikumar**  
**4)ELKOTBY, Hussain**  
**5)ABDELGELIL, Mahmoud**  
**6)CABROL, Patrick**

(57) Abstract :

A method for initial timing synchronization for a WTRU to communicate with a network includes receiving an in-channel narrowband synchronization sequence from the network to enable initial coarse timing synchronization, determining coarse timing offset and a range between a beam source of a network transmitter and the WTRU, selecting a wideband sequence for fine timing synchronization using the estimated range, transmitting the selected wideband sequence for fine timing synchronization during an uplink timing occasion, receiving from the network a transmission of the selected wideband sequence for fine timing synchronization, and establishing fine timing synchronization between the WTRU and the network using the selected sequence.

No. of Pages : 59 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044295 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : POWER EFFICIENT BROADCASTING IN WLAN

(51) International classification :H04W 48/00, H04W  
4/06  
(31) Priority Document No :62/971621  
(32) Priority Date :07/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/016864  
Filing Date :05/02/2021  
(87) International Publication No :WO 2021/158950  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)WANG, Xiaofei**  
**2)LOU, Hanqing**  
**3)LASITA, Frank**

(57) Abstract :

Devices, methods, and/or systems for broadcasting in a wireless local area network (WLAN). A STA receives a frame from a wireless access point (AP) which includes an indication that an enhanced broadcast service (eBCS) service is ending. The frame may include an end-of-broadcast-service announcement information element, and/or an indication of a time at which the eBCS service is ending. The STA may negotiate with the AP for continuation of the broadcast service if the STA desires to continue receiving the eBCS service beyond the time at which the eBCS service ends. The STA may receive a trigger frame from the AP which triggers a response from the STA indicating that it desires to continue receiving the eBCS service beyond the time at which the eBCS service ends.

No. of Pages : 43 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044341 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINATION OF A 3D INFORMATION AND OF A MODIFICATION OF A METALLURGICAL VESSEL

(51) International classification :G06T 7/00  
(31) Priority Document No :20152201.8  
(32) Priority Date :16/01/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/050735  
Filing Date :14/01/2021  
(87) International Publication No :WO 2021/144386  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)KATZ, Romy-Sophie**  
**2)LAMMER, Gregor**

(57) Abstract :

Method, imaging system (5), data processing device (60) and system (10) for determination of a 3D information (90), especially of a point cloud (80) or of a 3D surface reconstruction (81) or of a 3D object (82), of an inner part (55) of a metallurgical vessel (50) or of a modification, the method comprising the steps of providing (100) a metallurgical vessel (50); capturing (110) a first optical image (21) of at least one first inner part (51) of the metallurgical vessel (50), from a first imaging device position (22) outside of the metallurgical vessel (50), with a first optical axis (23), by a first imaging device (20); capturing (120) a second optical image (31) of at least one second inner part (52) of the metallurgical vessel (50), from a second imaging device position (32) outside of the metallurgical vessel (50), with a second optical axis (33), by a second imaging device (30); calculating (130) a 3D information (90), such as a point cloud (80) or a 3D surface reconstruction (81) or a 3D object (82), of at least one inner part (55) of the metallurgical vessel (50) from at least the first optical image (21) and the second optical image (31), whereas the first optical image (21) is captured from a first fixed imaging device position (22) with a first fixed optical axis (23) and whereas the second optical image (31) is captured from a second fixed imaging device position (32) with a second fixed optical axis (33).

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043828 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS FOR THE POLYMERIZATION OF OLEFINS IN SOLUTION COMPRISING DEACTIVATING THE POLYMERIZATION CATALYST BY HEAT

(51) International classification	:C08F 6/02, C08F 210/16, C08L 23/08, C08F 6/00	(71)Name of Applicant : <b>1)BOREALIS AG</b> Address of Applicant :Trabrennstrasse 6-8 1020 Vienna Austria
(31) Priority Document No	:20150102.0	(72)Name of Inventor :
(32) Priority Date	:02/01/2020	<b>1)AL-HAJ ALI, Mohammad</b>
(33) Name of priority country	:EPO	<b>2)BERGSTRA, Michiel</b>
(86) International Application No	:PCT/EP2020/084905	<b>3)ERIKSSON, Erik</b>
Filing Date	:07/12/2020	<b>4)VIJAY, Sameer</b>
(87) International Publication No	:WO 2021/136629	<b>5)WURNITSCH, Christof</b>
(61) Patent of Addition to Application Number	:NA	<b>6)ZITTING, Samuli</b>
Filing Date	:NA	<b>7)SLEIJSTER, Henry</b>
(62) Divisional to Application Number	:NA	<b>8)AJELLAL, Noureddine</b>
Filing Date	:NA	

(57) Abstract :

The present invention relates to a polymerization process, comprising: a) supplying a feed containing ethylene and at least one alpha-olefin having 3 to 12 carbon atoms in a hydrocarbon solvent to a polymerization reactor, b) contacting the feed of step a) in the reactor with a catalyst to form a reaction mixture containing an ethylene-alpha-olefin co-polymer, c) withdrawing the reaction mixture from the polymerization reactor as a reactor outlet stream which comprises the ethylene-alpha-olefin co-polymer, unreacted monomer and comonomer, catalyst, and hydrocarbon solvent, d) heating the reactor outlet stream to a temperature which is at least 5 °C higher than the temperature of the reaction mixture at the outlet of the reactor for a time period of between 1 and 250 seconds in order to deactivate the polymerization catalyst, and e) separating hydrocarbon solvent, monomer and comonomer from the reactor outlet stream and recycling it back to the polymerization reactor without further purification steps.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043838 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : HIGH GREEN DENSITY CERAMICS FOR BATTERY

(51) International classification :C04B 35/486, C04B 35/632, C04B 35/634, C04B 35/64, C04B 35/638

(31) Priority Document No :62/961611

(32) Priority Date :15/01/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/013742  
Filing Date :15/01/2021

(87) International Publication No :WO 2021/146633

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

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

(71)Name of Applicant :

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(72)Name of Inventor :

**1)VAN BERKEL, Kim**

**2)JEFFRIES, Patrick**

(57) Abstract :

Set forth herein are processes and materials for making ceramic thin green tapes by casting ceramic source powders and precursor reactants, binders, and functional additives into unsintered thin green tapes in a non-reactive environment.

No. of Pages : 36 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043864 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : IL-7RA BINDING COMPOUNDS

(51) International classification :A61K 38/20, A61P  
37/02, C07K 14/54

(31) Priority Document No :62/969432

(32) Priority Date :03/02/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/016356  
Filing Date :03/02/2021

(87) International Publication No :WO 2021/158619

(61) Patent of Addition to Application  
Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

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**2)NEEDELS, Michael, C.**

**3)BARRETT, Ronald, W.**

**4)BAKKER, Alice, V.**

**5)CWIRLA, Steven, E.**

(57) Abstract :

IL-7Ra ligands and compounds comprising IL-7Ra ligands are disclosed. The IL-7Ra binding compounds include fusion proteins comprising the IL-7Ra ligands and can act as IL-7R agonists.

No. of Pages : 176 No. of Claims : 15



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043865 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : HYALURONIC ACID DERIVATIVE COMPOSITION, PHARMACEUTICAL COMPOSITION AND HYALURONIC ACID DERIVATIVE-DRUG CONJUGATE COMPOSITION

(51) International classification	:A61K 45/00, A61P 43/00, A61K 9/06, A61K 47/10, A61K 47/36	(71)Name of Applicant : <b>1)ASAHI KASEI KABUSHIKI KAISHA</b> Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo 1000006 Japan
(31) Priority Document No	:2020-018312	(72)Name of Inventor :
(32) Priority Date	:05/02/2020	<b>1)NAKAGAWA Yoshiyuki</b>
(33) Name of priority country	:Japan	<b>2)YABUUCHI Kohei</b>
(86) International Application No	:PCT/JP2021/004200	<b>3)FUKUMOTO Keisuke</b>
Filing Date	:05/02/2021	<b>4)KATSUMATA Toru</b>
(87) International Publication No	:WO 2021/157677	<b>5)YANG Soyeun</b>
(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 hyaluronic acid derivative composition that comprises (A) a hyaluronic acid derivative having a steryl group introduced therein and (B) a polar group-containing compound having at least one kind of functional group selected from the group consisting of hydroxy group, carboxy group, amino group, amide group, carbamate group, urea group and thiol group, wherein the steryl group has been introduced at a ratio of 0.1% or more and less than 35% relative to the hyaluronic acid derivative (A); a pharmaceutical composition that contains the hyaluronic acid derivative composition as a carrier; and a hyaluronic acid derivative-drug conjugate composition wherein, in the hyaluronic acid derivative composition, one or more drugs are conjugated to the hyaluronic acid derivative (A).

No. of Pages : 57 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043877 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : AIR BLOW NOZZLE AND TIP DRESSER EQUIPPED WITH AIR BLOW NOZZLE

(51) International classification	:B23K 11/30, B23B 25/00, B23Q 11/00	(71)Name of Applicant :
(31) Priority Document No	:2020-031723	<b>1)KYOKUTOH CO., LTD.</b>
(32) Priority Date	:27/02/2020	Address of Applicant :181-1 Nakayashiki, Orido-cho, Nissin-shi, Aichi 4700115 Japan
(33) Name of priority country	:Japan	(72)Name of Inventor :
(86) International Application No	:PCT/JP2021/005412	<b>1)TEZAWA Kazuhiro</b>
Filing Date	:15/02/2021	
(87) International Publication No	:WO 2021/172063	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is an air blow nozzle that, even when maintenance is periodically performed on a tip dresser, can surely get rid of chips adhering to a cutting blade part during cutting work after the maintenance. In an air blow nozzle 6, a nozzle body 6a is connected to an air compressor 82b at one end and, at the other end, provided with an air discharge part 6d capable of discharging compressed air supplied from the air compressor 82b. A support block 6b supports the nozzle body 6a such that the nozzle body 6a is slidable in a horizontal direction. The air discharge part 6d is movable, when the nozzle body 6a is slid to one side, to a position that does not correspond to an upper connection hole 20a. The nozzle body 6a is provided with a nut 6c for positioning, when the nozzle body 6a is slid to the other side, the air discharge part 6d at a given position P1 which is determined in advance and which is closer to a rotary holder 4.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043885 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PERIODIC MOTION-BASED VISUAL STIMULUS

(51) International classification :G06F 3/01, G06F  
3/03  
(31) Priority Document No :16/780173  
(32) Priority Date :03/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2020/065177  
Filing Date :16/12/2020  
(87) International Publication No :WO 2021/158295  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)HOLZ, Christian**  
**4)LEE, Adrian Kuo Ching**  
**5)TASHEV, Ivan Jelev**  
**6)GAMPER, Hannes**  
**7)CUTRELL, Edward Bryan**  
**8)JOHNSTON, David Emerson**  
**9)EMMANOUILIDOU, Dimitra**  
**10)JALOBEANU, Mihai R.**

(57) Abstract :

A computer device is provided that includes a display device, and a sensor system configured to be mounted adjacent to a user's head and to measure an electrical potential near one or more electrodes of the sensor system. The computer device further includes a processor configured to present a periodic motion-based visual stimulus having a changing motion that is frequency-modulated for a target frequency or code-modulated for a target code, detect changes in the electrical potential via the one or more electrodes, identify a corresponding visual evoked potential feature in the detected changes in electrical potential that corresponds to the periodic motion-based visual stimulus, and recognize a user input to the computing device based on identifying the corresponding visual evoked potential feature.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043886 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND APPARATUS FOR JOINING TOGETHER MODULAR CANDLE FILTERS

(51) International classification :B01D 39/20, B01D  
46/00, B01D 46/24  
(31) Priority Document No :63/028781  
(32) Priority Date :22/05/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/033557  
Filing Date :21/05/2021  
(87) International Publication No :WO 2021/237027  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Tonawanda, New York 14150 U.S.A.

(72)Name of Inventor :

**1)DECKER, Jens**

(57) Abstract :

A system for forming a hollow modular candle filter includes: a first filter portion having at least one open end; a hollow second filter portion having at least one open end; a sleeve configured to fit within the open end of the first filter portion and the open end of the second filter portion; and an adhesive configured to bind the sleeve to each of the first filter portion and the second filter portion.

No. of Pages : 14 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043887 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CONJUGATES OF ANTIBODIES AN IMMUNE CELL ENGAGERS

(51) International classification :A61K 47/68, A61P  
35/00  
(31) Priority Document No :20151544.2  
(32) Priority Date :13/01/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/050599  
Filing Date :13/01/2021  
(87) International Publication No :WO 2021/144315  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SYNAFFIX B.V.**  
Address of Applicant :Kloosterstraat 9 5349 AB Oss  
Netherlands  
(72)Name of Inventor :  
**1)VAN GEEL, Remon**  
**2)VUGS, Willem Johannes Petrus**  
**3)VAN BERKEL, Sander Sebastiaan**  
**4)VAN DELFT, Floris Louis**

(57) Abstract :

The present invention concerns a process for preparing a multispecific antibody construct, comprising conjugating a functionalized antibody Ab(F)x containing x reactive moieties F, wherein x is an integer in the range 1 - 10, and an immune cell-engaging polypeptide containing one or two reactive moieties Q, wherein the antibody is specific for a tumour cell and the immune cell-engaging polypeptide is specific for an immune cell, wherein the reaction forms a covalent linkage between the functionalized antibody and the immune cell-engaging polypeptide by reaction of Q with F. The invention further concerns the multispecific antibody constructs obtainable by the process according to the invention and medical uses thereof.

No. of Pages : 118 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043890 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CRYSTALLINE FORMS OF 2-[3-[4-AMINO-3-(2-FLUORO-4-PHENOXY-PHENYL)- 1H-PYRAZOLO[3,4-D]PYRIMIDIN-1-YL]PIPERIDINE-1-CARBONYL]-4,4-DIMETHYLPENT-2-ENENITRILE

(51) International classification	:C07D 487/04, A61K 31/535, A61P 17/02, A61P 35/00	(71)Name of Applicant : <b>1)PRINCIPIA BIOPHARMA INC.</b> Address of Applicant :55 Corporate Drive Bridgewater, New Jersey 08807 U.S.A.
(31) Priority Document No	:62/958389	(72)Name of Inventor :
(32) Priority Date	:08/01/2020	<b>1)PHIASIVONGSA, Pasit</b>
(33) Name of priority country	:U.S.A.	<b>2)ZHU, Jiang</b>
(86) International Application No	:PCT/US2021/012515	<b>3)BY, Kolbot</b>
Filing Date	:07/01/2021	<b>4)MASJEDIZADEH, Mohammad</b>
(87) International Publication No	:WO 2021/142131	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Crystalline forms of Compound (I) are disclosed. Pharmaceutical compositions comprising the same, methods of inhibiting BTK using the same, and methods for making crystalline forms of Compound (I) are also disclosed.

No. of Pages : 48 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043912 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LOZENGE

(51) International classification	:A61K 9/00, A61K 31/155, A61K 9/24, A61P 25/34	(71)Name of Applicant : <b>1)MCNEIL AB</b> Address of Applicant :Norrbroplatsen 2 25109 Helsingborg Sweden
(31) Priority Document No	:2050030-2	(72)Name of Inventor :
(32) Priority Date	:15/01/2020	<b>1)THYRESSON, Kristina</b>
(33) Name of priority country	:Sweden	<b>2)LINDELL, Katarina</b>
(86) International Application No	:PCT/EP2021/050705	
Filing Date	:14/01/2021	
(87) International Publication No	:WO 2021/144367	
(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 a nicotine lozenge giving an immediate release and uptake of nicotine and an extended release and uptake of nicotine as well as describing suitable manufacturing processes for such lozenge formulations and the use of the lozenge for the treatment of a human being suffering from cravings from tobacco and/or e-cigarette dependency.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043914 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR PRODUCING SYNTHESIS GAS

(51) International classification :C01B 3/34, C10G  
9/02, C10G 7/12  
(31) Priority Document No :10-2021-0013214  
(32) Priority Date :29/01/2021  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2021/018398  
Filing Date :06/12/2021  
(87) International Publication No :WO 2022/164007  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)LG CHEM, LTD.**

Address of Applicant :128, Yeoui-daero Yeongdeungpo-Gu  
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(72)Name of Inventor :

**1)HWANG, Sung June**

**2)KIM, Tae Woo**

**3)KI, Sik**

**4)LEE, Sung Kyu**

(57) Abstract :

The present invention relates to a method for producing synthesis gas and, more specifically, provides a method for producing synthesis gas, comprising: a step (S10) of supplying, to a distillation column, a pyrolysis fuel oil (PFO) stream including PFO and a pyrolysis gas oil (PGO) stream including PGO as feed streams, which are discharged from naphtha catalytic cracking (NCC); and a step (S20) of supplying a lower discharge stream from the distillation column to a combustion chamber for a gasification process.

No. of Pages : 42 No. of Claims : 17



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043915 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR PREPARING SYNTHESIS GAS

(51) International classification :C01B 3/34, C10G  
9/02

(31) Priority Document No :10-2021-0013229

(32) Priority Date :29/01/2021

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2021/018562

Filing Date :08/12/2021

(87) International Publication No :WO 2022/164009

(61) Patent of Addition to Application  
Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

**1)LG CHEM, LTD.**

Address of Applicant :128, Yeoui-daero Yeongdeungpo-Gu  
Seoul 07336 Republic of Korea

(72)Name of Inventor :

**1)HWANG, Sung June**

**2)KIM, Tae Woo**

**3)KI, Sik**

**4)LEE, Sung Kyu**

(57) Abstract :

The present invention relates to a method for preparing synthesis gas and, more specifically, provides a method for preparing synthesis gas, comprising the steps of: (S10) supplying, to a distillation column, as feed streams, a pyrolysis fuel oil (PFO) stream comprising PFO, which is discharged from naphtha cracking center (NCC), and a pyrolysis gas oil (PGO) stream comprising PGO; and (S20) supplying a lower effluent stream of the distillation column to a combustion chamber for gasification, wherein the PGO stream is supplied to the top end of the distillation column and the PFO stream is supplied to the bottom end of the distillation column.

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043926 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : AMMONIUM SULPHATE PRODUCTION ON INDUSTRIAL SCALE

(51) International classification :C01C 1/242, C07D  
201/04, C07D  
201/16, B01D 9/00,  
B01D 11/04  
(31) Priority Document No :20156175.0  
(32) Priority Date :07/02/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/052670  
Filing Date :04/02/2021  
(87) International Publication No :WO 2021/156371  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)CAP III B.V.**

Address of Applicant :Mauritslaan 49 6129 EL Urmond  
Netherlands

(72)Name of Inventor :

**1)TINGE, Johan Thomas**

**2)WESTERHOF, Jarno Martijn**

**3)POORTER, Olaf**

(57) Abstract :

The invention provides a process for the production of crystalline ammonium sulfate, wherein the process comprises performing a Beckmann rearrangement reaction, neutralizing the Beckmann rearrangement reaction mixture, separating a first aqueous ammonium sulfate phase and an aqueous e-caprolactam phase, charging the first ammonium sulfate phase to a first evaporative type crystallization section wherein crystalline ammonium sulfate is obtained, discharging from the first evaporative type crystallization section mother liquor enriched in organic components, extracting the aqueous e-caprolactam phase to obtain an extracted e-caprolactam phase and a second aqueous ammonium sulfate phase, discharging the mother liquor that is discharged from the first evaporative type crystallization section and/or the second aqueous ammonium sulfate phase to a second evaporative type crystallization section wherein evaporative type crystallization is performed so that a three-phase system occurs. At least a liquid oily phase is recovered from the three-phase system. The invention further provides a plant suitable to carry out the process of the invention, crystalline ammonium sulfate and a liquid oily phase obtained by the process of the invention.

No. of Pages : 40 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043945 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS FOR COMMUNICATION, TERMINAL DEVICE, NETWORK DEVICE, AND COMPUTER READABLE MEDIA

(51) International classification :H04L 5/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/073423  
Filing Date :21/01/2020  
(87) International Publication No :WO 2021/146892  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)NEC CORPORATION**  
Address of Applicant :7-1, Shiba 5-chome Minato-ku, Tokyo  
108-8001 Japan  
(72)Name of Inventor :  
**1)LIANG, Lin**  
**2)LIANG, Lin**

(57) Abstract :

Embodiments of the present disclosure provide a solution for coverage enhancement. In a method for communication, a terminal device receives, from a network device, information on an inferring relation between a first channel associated with a first slot and a second channel associated with a second slot. The terminal device determines, based on the information, whether the first and second channels are to be inferable from each other. In accordance with a determination that the first and second channels are to be inferable from each other, the terminal device performs communications with the network device on the first and second channels based on the inferring relation. Embodiments of the present disclosure effectively enhance coverage of communications, thereby improving communication performance.

No. of Pages : 38 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043946 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : FILM & SEED COATING COMPOSITION

(51) International classification	:C09D 103/04, C09D 191/06, C09D 193/04, A01C 1/06, A01N 25/00	(71)Name of Applicant : <b>1)CRODA INTERNATIONAL PLC</b> Address of Applicant :Cowick Hall Snaith Goole East Yorkshire DN14 9AA U.K.
(31) Priority Document No	:2000685.4	(72)Name of Inventor :
(32) Priority Date	:16/01/2020	<b>1)KLOMP, Dirk</b>
(33) Name of priority country	:U.K.	<b>2)GARNIER, Jerome Sylvain</b>
(86) International Application No	:PCT/EP2021/050822	<b>3)SAMUELS, Pieter Wilhelmus Johannes</b>
Filing Date	:15/01/2021	
(87) International Publication No	:WO 2021/144430	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A film coating composition, and seed coating composition formed comprising the film forming composition. The film coating composition comprises rosin resin and/or starch derivative and wax dispersion. The sum of rosin/starch and wax in the film coating composition being in the range 2 to 60 wt.%. The seed coating formulation optionally comprises an agrochemical active and/or nutrient, and is applied to seeds or bulbs for wet and dry flowability, abrasion resistance, dust off, germination, plantability and colour retention. In particular, the seed coating composition provides said properties whilst essentially or completely microplastic free. There is also provided a method of making the formulations, and for treating seeds or bulbs with seed coating formulation.

No. of Pages : 28 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043947 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MODIFIED IMMUNE EFFECTOR CELL AND PREPARATION METHOD THEREFOR

(51) International classification :C12N 5/10, A61K 35/17, A61P 35/00, A61P 31/00, A61P 37/06  
(31) Priority Document No :202010002929.3  
(32) Priority Date :02/01/2020  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2020/140799  
Filing Date :29/12/2020  
(87) International Publication No :WO 2021/136263  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Ningbo T-MAXIMUM Biopharmaceuticals Co., Ltd.**  
Address of Applicant :Room 212-11, Building 1, No.39  
Qiyuan Road, Hangzhou Bay New Area, Ningbo, Zhejiang China  
(72)Name of Inventor :  
**1)SHANG, Xiaoyun**  
**2)JIANG, Haijuan**  
**3)WANG, Dan**  
**4)SHEN, Hui**  
**5)MA, Li**  
**6)XIN, Yu**  
**7)XU, Fanli**  
**8)LI, Jialu**  
**9)MA, Shaowen**  
**10)ZHAO, Dan**

(57) Abstract :

Provided is a modified immune effector cell, wherein compared with the expression and/or activity of the corresponding gene in a corresponding unmodified cell, the expression and/or activity of the TRAC gene and the HLA-A gene are down-regulated, the expression and/or activity of the B2M gene is not down-regulated, and the expression and/or activity of the CIITA gene is not down-regulated. Also provided is a method for preparing the modified immune effector cell.

No. of Pages : 60 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043949 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : WIRELESS AUDIO TRANSMITTER AND RECEIVER BONE DEVICE USING BONE CONDUCTION

(51) International classification	:A61C 7/08, A61C 7/36
(31) Priority Document No	:62/956914
(32) Priority Date	:03/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/012045
Filing Date	:04/01/2021
(87) International Publication No	:WO 2021/138655
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)SMOLARZ, Joseph Ryan**

Address of Applicant :Paragon Medical Bldg., Suite 308 9149  
Estate Thomas 00802 Charlotte Amalie U.S.A.

(72)Name of Inventor :

**1)SMOLARZ, Joseph Ryan**

(57) Abstract :

The disclosure is directed to methods for transmitting vibrations via an electronic and/or transducer assembly through a user or wearer's tooth, teeth, jaw, and/or other bones. The disclosure is further directed to a system for transmitting vibrations via an electronic and/or transducer assembly through a user or wearer's tooth, teeth, jaw and/or other bones. The disclosure is further directed to an oral apparatus for implementation of methods and systems described herein.

No. of Pages : 28 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043950 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : TARGETED EXPRESSION OF MICROBIAL CHOLESTEROL CATALYSIS GENES REDUCES EXCESS LIPID

(51) International classification :C12N 15/52, A61K 48/00, C12N 9/04, C12N 9/02, A61K 38/16  
(31) Priority Document No :62/983102  
(32) Priority Date :28/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/020053  
Filing Date :26/02/2021  
(87) International Publication No :WO 2021/174100  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)REPAIR BIOTECHNOLOGIES, INC.**  
Address of Applicant :841 East Fayette St. Syracuse, NY 13210 U.S.A.  
(72)Name of Inventor :  
**1)TOPORS, Mourad**  
**2)PERDIGO DE OLIVEIRA, Guilherme Cherman**  
**3)REASON**  
**4)RIDILLA, Marc**  
**5)MUKHERJEE, Jayanta**  
**6)MACKENZIE-LIU, David**  
**7)STROUGH, Garrett**  
**8)THOMAS, David**

(57) Abstract :

Disclosed herein are compositions, constructs, cassettes, vectors, cells, nucleic acids, peptides, proteins, protocols and methods for reducing cholesterol and lipid buildup in mammalian subjects, via gene and/or cell therapeutic treatments. In many embodiments, the disclosed compositions, cells, constructs, cassettes, vectors, nucleic acids, peptides, proteins, protocols and methods may help to reduce lipid levels in mammals. In one embodiment, the disclosed compositions, cells, constructs, cassettes, vectors, nucleic acids, peptides, proteins, protocols and methods are useful in reducing lipid build-up, especially cholesterol, in liver cells.

No. of Pages : 19 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043963 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF GROWING LARGER DIAMONDS

(51) International classification :C30B 25/02, C30B 29/04, C01B 32/25  
(31) Priority Document No :62/963231  
(32) Priority Date :20/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/014154  
Filing Date :20/01/2021  
(87) International Publication No :WO 2021/150587  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)M7D CORPORATION**  
Address of Applicant :6710 Virginia Manor Road Beltsville,  
MD 20705 U.S.A.  
(72)Name of Inventor :  
**1)CIRALDO, John, P.**  
**2)LEVINE-MILES, Jonathan**

(57) Abstract :

A method forms one or more diamonds. The method provides a growth chamber having a gas environment. A single crystal diamond substrate is positioned within the growth chamber. Diamond material is deposited on the single crystal diamond substrate for epitaxial growth. The single crystal diamond substrate has a given crystal orientation. Growth is continued at a prescribed temperature, prescribed pressure, and with a prescribed gas content for the gas environment. The prescribed gas environment has a nitrogen concentration of greater than about 0.5 ppm and less than about 5.0 ppm. The prescribed temperature is greater than about 650 degrees C and less than about 950 degrees C. The prescribed pressure is greater than about 130 Torr and less than about 175 Torr.

No. of Pages : 14 No. of Claims : 26



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044003 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : BOTTOM-UP ASSEMBLY OF SYNTHETIC EXTRACELLULAR VESICLES

(51) International classification	:A61K 9/127, A61K 47/69	(71)Name of Applicant :
(31) Priority Document No	:20155012.6	<b>1)MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V.</b>
(32) Priority Date	:31/01/2020	Address of Applicant :Hofgartenstrasse 8 80539 Munich
(33) Name of priority country	:EPO	Germany
(86) International Application No	:PCT/EP2021/052145	(72)Name of Inventor :
Filing Date	:29/01/2021	<b>1)STAUFER, Oskar</b>
(87) International Publication No	:WO 2021/152115	<b>2)PLAZMAN, Yilia</b>
(61) Patent of Addition to Application Number	:NA	<b>3)SPATZ, Joachim, P.</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for producing synthetic extracellular vesicles comprising a lipid bilayer including at least two lipids, one or more extracellular vesicle associated proteins, and optionally one or more nucleic acid molecules. The inventive synthetic extracellular vesicles are formed by emulsification using a mechanic emulsifier in the form of polymer shell stabilized synthetic extracellular vesicles. The inventive method allows producing synthetic extracellular vesicles miming the composition and function of natural extracellular vesicles. Therefore, synthetic extracellular vesicles with specific protein and nucleic acids compositions are also disclosed herein, as well as their therapeutic uses.

No. of Pages : 259 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044354 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : ALKALI METAL MATERIALS

(51) International classification :B01J 23/04, H01M 4/04, H01M 4/134, H01M 10/052  
(31) Priority Document No :2000467.7  
(32) Priority Date :13/01/2020  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2021/050593  
Filing Date :13/01/2021  
(87) International Publication No :WO 2021/144312  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)SIGMA LITHIUM LIMITED**

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(72)Name of Inventor :

**1)KOLOSNITSYN, Vladimir**

**2)KARASEVA, Elena**

**3)IVANOV, Gleb**

(57) Abstract :

There is disclosed a method of making a surface-modified alkali metal material for electrochemical use, the method comprising bringing a barrier agent into frictional contact with an alkali metal substrate to form a tribochemical barrier layer on the substrate. Also disclosed is a surface-modified alkali metal material for electrochemical use, the material comprising an alkali metal substrate bearing a tribochemical barrier layer.

No. of Pages : 11 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044355 A

(19) INDIA

(22) Date of filing of Application :03/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPLEXES OF N-HETEROCYCLIC CARBENES FOR TRANSITION METAL CATALYSIS

(51) International classification :C07F 15/00, B01J  
31/00, C07F 7/02  
(31) Priority Document No :62/958583  
(32) Priority Date :08/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012735  
Filing Date :08/01/2021  
(87) International Publication No :WO 2021/142289  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)SZOSTAK, Michal**  
**2)SHI, Shicheng**

(57) Abstract :

Described herein is a new class of highly active Pd(II)-NHC complexes bearing anilines as throw-away ligands. These catalysts are well-defined, air- and moisture-stable and can be easily purified by chromatographic techniques. High activity and generality has been exemplified in the Suzuki-Miyaura cross-coupling by C-N, C-O and C-Cl cleavage. Facile syntheses of these catalysts is also described.

No. of Pages : 42 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045698 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MEK INHIBITORS AND THERAPEUTIC USES THEREOF

(51) International classification :C07D 401/10  
(31) Priority Document No :62/959732  
(32) Priority Date :10/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012531  
Filing Date :07/01/2021  
(87) International Publication No :WO 2021/142144  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)IMMUNEERING CORPORATION**

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(72)Name of Inventor :

**1)HALL, Brett Matthew**

**2)DECORTE, Bart Lieven**

**3)KING, Peter John**

**4)LEENDERS, Ruben**

**5)WEGERT, Anita**

**6)FOWLER, Kevin**

**7)KOLITZ, Sarah**

**8)DOODEMAN, Robin**

**9)POELAKKER, Jarno**

**10)FOLMER, Rutger Henk Adriaan**

(57) Abstract :

The present disclosure provides compounds, compositions containing such compounds, and methods of designing, developing, producing and preparing compounds represented by general Formula (I), including pharmaceutically acceptable salts thereof or a synthetic intermediate thereof. The compounds act as MEK inhibitors and are capable of displaying one or more beneficial therapeutic effects, including treating cancer.

No. of Pages : 305 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045701 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : VALVE

(51) International classification :F16K 11/085, F16K 31/60, F16K 31/00, F16K 31/56, F16K 35/04  
(31) Priority Document No :2001683.8  
(32) Priority Date :07/02/2020  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2021/050261  
Filing Date :05/02/2021  
(87) International Publication No :WO 2021/156629  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)IMPERIAL COLLEGE INNOVATIONS LIMITED**

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(72)Name of Inventor :

**1)DHARMADASA, Asela Bandara**

**2)BLAIR, Nigel Stephen**

**3)MCCULLOCH, Andrew Douglas**

**4)PATEL, Manish Kumar**

**5)GÓMEZ, Carlos MH**

(57) Abstract :

A valve for use with breathing assistance apparatus comprises first, second and third ports (21, 22, 23) for respective connection to a patient breathing tube, a first ventilation apparatus and a second ventilation application. The valve includes a bistable valve mechanism having a first stable configuration in which the first port is in fluid communication with the second port and not the third port; and a second stable configuration in which the first port is in fluid communication with the third port and not the second port. The valve has an actuator configured to transition the bistable valve mechanism between the two stable configurations and preventing the valve mechanism from maintaining a stable intermediate position between the first and second stable configurations. In this way a patient may be switched from one ventilation apparatus to another ventilation apparatus without sudden loss of pressure in the disconnecting circuit causing potentially infected aerosols to be released, and the without sudden loss of positive end expiratory pressure to the patient's lungs.

No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045702 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CHEMICAL RECYCLING OF SOLVOLYSIS TEREPHTHALYL COLUMN BOTTOMS COPRODUCT STREAMS

(51) International classification	:B29B 17/04, B09B 3/00, C10J 3/00, C10G 1/10	(71)Name of Applicant : <b>1)EASTMAN CHEMICAL COMPANY</b> Address of Applicant :200 South Wilcox Drive Kingsport, TN 37660 U.S.A.
(31) Priority Document No	:62/972289	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	<b>1)DEBRUIN, Bruce, Roger</b>
(33) Name of priority country	:U.S.A.	<b>2)BITTING, Daryl</b>
(86) International Application No	:PCT/US2021/017366	<b>3)SLIVENSKY, David, Eugene</b>
Filing Date	:10/02/2021	<b>4)WU, Xianchun</b>
(87) International Publication No	:WO 2021/163123	<b>5)KEEVER, Travis, Wynn</b>
(61) Patent of Addition to Application Number	:NA	<b>6)EKART, Michael, Paul</b>
Filing Date	:NA	<b>7)SHUMAN, Jaclyn, Erin</b>
(62) Divisional to Application Number	:NA	<b>8)SCHAEFER, Timothy, Glenn</b>
Filing Date	:NA	<b>9)MURPHY, Justin, William</b>
		<b>10)LANGE, David, Milton</b>
		<b>11)EDENS, Aaron, Nathaniel</b>

(57) Abstract :

Chemical recycling facilities for processing mixed plastic waste are provided herein. Such facilities have the capability of processing mixed plastic waste streams and utilize a variety of recycling facilities, such as, for example, solvolysis facility, a pyrolysis facility, a cracker facility, a partial oxidation gasification facility, an energy generation/energy production facility, and a solidification facility. Streams from one or more of these individual facilities may be used as feed to one or more of the other facilities, thereby maximizing recovery of valuable chemical components and minimizing unusable waste streams.

No. of Pages : 186 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045706 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR PRODUCING SINTERED ORE

(51) International classification :C22B 1/20  
(31) Priority Document No :2020-031953  
(32) Priority Date :27/02/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/006552  
Filing Date :22/02/2021  
(87) International Publication No :WO 2021/172254  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)JFE STEEL CORPORATION**  
Address of Applicant :2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011 Japan  
(72)Name of Inventor :  
**1)TAKEHARA Kenta**  
**2)YAMAMOTO Tetsuya**  
**3)HIGUCHI Takahide**

(57) Abstract :

Provided is a method for producing high-strength sintered ore while maintaining a high production rate by appropriately enriching oxygen at a position on a dead pit side with respect to the top position without using gaseous fuel in the operation of a sintering machine. In a method of producing a sintered ore by firing a compounded raw material by sequentially burning carbonaceous materials in a sintering bed (raw material charging layer) of a Dwight-Lloyd sintering machine, when oxygen enrichment is performed from above the raw material charging layer on the sintering machine, the oxygen enrichment treatment is performed to and sintering is carried out at a position closer to the dead pit than the position where 4 minutes have passed since the upper surface of the raw material charging layer was ignited.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044024 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : THERAPEUTIC AGENT NANOPARTICLES AND METHODS OF PREPARATION

(51) International classification :A61K 9/14, A61K  
9/16, B82Y 5/00  
(31) Priority Document No :62/978773  
(32) Priority Date :19/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/018466  
Filing Date :18/02/2021  
(87) International Publication No :WO 2021/168043  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)NANO PHARMASOLUTIONS, INC.**  
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(72)Name of Inventor :  
**1)OLMSTEAD, Kay**  
**2)LEE, Saeyeon**  
**3)KOH, Seok-Keun**

(57) Abstract :

Provided herein is a coated particle comprising: (i) a microparticle that comprises a pharmaceutically acceptable excipient and (ii) nanoparticles of a therapeutic agent, wherein the surface of the microparticle is coated with the nanoparticles. Also provided herein is a pharmaceutical composition comprising the coated particle. Furthermore, provided herein are methods of their preparation.

No. of Pages : 55 No. of Claims : 73



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044027 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR OPTICAL PERFORMANCE CAPTURED ANIMATED FIGURE WITH REAL-TIME REACTIVE PROJECTED MEDIA

(51) International classification	:G09F 27/00, G09F 19/08, G09F 19/18
(31) Priority Document No	:62/956468
(32) Priority Date	:02/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/066314
Filing Date	:21/12/2020
(87) International Publication No	:WO 2021/138100
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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Address of Applicant :100 Universal City Plaza Universal City, California 91608 U.S.A.

(72)Name of Inventor :

**1)MECCA, Anthony Alexander**

**2)ECK, Timothy J.**

(57) Abstract :

A reactive media system (8) includes a motion control system (50) having an animated figure (12) with a body and actuators configured to adjust a figure portion of the body in response to interactive data received from one or more interactive data sources. The reactive media system includes a media control system (20) having a tracking camera (64) configured to generate signals indicative of a current position and orientation of the figure portion based on a set of trackers (60) coupled to the figure portion. The media control system includes a media controller configured to receive the signals, determine the current position and orientation based on the signals, and generate data indicative of images to be projected onto an external surface of the figure portion having the current position and orientation. The media control system also includes a projector (16) configured to receive the data from the media controller and project the images onto the external surface.

No. of Pages : 32 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044028 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PESTICIDALLY ACTIVE FUSED BICYCLIC HETEROAROMATIC AMINO COMPOUNDS

(51) International classification :C07D 471/04, A01N  
43/653  
(31) Priority Document No :202011004196  
(32) Priority Date :30/01/2020  
(33) Name of priority country :India  
(86) International Application No :PCT/EP2021/051831  
Filing Date :27/01/2021  
(87) International Publication No :WO 2021/151926  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :Rosentalstrasse 67 4058 Basel  
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(72)Name of Inventor :

**1)HALL, Roger, Graham**

**2)EMERY, Daniel**

**3)IOSUB, Viorel, Andrei**

**4)JEANGUENAT, André**

**5)KILARU, Jagadeesh, Prathap**

**6)LE CHAPELAIN, Camille**

**7)PHADTE, Mangala**

**8)PITTERNA, Thomas**

**9)SCARBOROUGH, Christopher, Charles**

(57) Abstract :

PESTICIDALLY ACTIVE FUSED BICYCLIC HETEROAROMATIC COMPOUNDS Compounds of formula (I) wherein the substituents are as defined in claim 1, and the agrochemically acceptable salts, stereoisomers, enantiomers, tautomers and N-oxides of those compounds, can be used as insecticides.

No. of Pages : 135 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044029 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PH NAL UNIT CODING-RELATED IMAGE DECODING METHOD, AND DEVICE FOR SAME

(51) International classification	:H04N 19/70, H04N 19/174, H04N 19/44, H04N 19/124, H04N 19/13	(71)Name of Applicant : <b>1)LG ELECTRONICS INC.</b> Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/956624	(72)Name of Inventor :
(32) Priority Date	:02/01/2020	<b>1)HENDRY, Hendry</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/KR2020/019322	
Filing Date	:29/12/2020	
(87) International Publication No	:WO 2021/137590	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An image decoding method performed by a decoding device according to the present document is characterized by comprising the steps of: acquiring a flag indicating whether a picture header (PH) network abstraction layer (NAL) unit including a PH for the current picture is present; acquiring a video coding layer (VCL) NAL unit including a slice header and slice data for the current slice of the current picture; acquiring the PH on the basis of the flag; and decoding the current picture on the basis of the PH, the slice header, and the slice data.

No. of Pages : 77 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044030 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : IMAGE DECODING METHOD, AND DEVICE FOR SAME

(51) International classification	:H04N 19/70, H04N 19/184, H04N 19/503, H04N 19/593, H04N 19/44	(71)Name of Applicant : <b>1)LG ELECTRONICS INC.</b> Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/956626	(72)Name of Inventor :
(32) Priority Date	:02/01/2020	<b>1)HENDRY, Hendry</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/KR2020/019325	
Filing Date	:29/12/2020	
(87) International Publication No	:WO 2021/137592	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An image decoding method performed by a decoding device according to the present document is characterized by comprising the steps of: acquiring image information through a bitstream; and decoding the current picture on the basis of the image information. The step for acquiring the image information includes the steps of: acquiring a flag indicating whether a picture header (PH) network abstraction layer (NAL) unit for the current picture is present; and acquiring the PH for the current picture on the basis of the flag, wherein the NAL unit including the PH is derived on the basis of the flag.

No. of Pages : 68 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044031 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMBINATION CANCER TREATMENT USING A PD-1 ANTAGONIST, AN ILT4 ANTAGONIST, AND LENVATINIB OR SALTS THEREOF.

(51) International classification	:A61K 31/47, A61K 39/395, C07K 16/28, A61P 35/00	(71)Name of Applicant : <b>1)MERCK SHARP &amp; DOHME LLC</b> Address of Applicant :126 East Lincoln Avenue Rahway, New Jersey 07065-0907 U.S.A.
(31) Priority Document No	:62/956469	<b>2)EISAI R&amp;D MANAGEMENT CO., LTD.</b>
(32) Priority Date	:02/01/2020	(72)Name of Inventor :
(33) Name of priority country	:U.S.A.	<b>1)ALTURA, Rachel A.</b>
(86) International Application No	:PCT/US2020/065799	<b>2)BRANDISH, Philip E.</b>
Filing Date	:18/12/2020	<b>3)PERINI, Rodolfo Fleury</b>
(87) International Publication No	:WO 2021/138079	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein are methods of treating cancer (e.g., RCC), which comprise administering to a human patient in need thereof: (a) a PD-1 antagonist; (b) an ILT4 antagonist; and (c) lenvatinib represented by Formula (I), or a pharmaceutically acceptable salt thereof. Also provided are kits containing such agents and uses of therapeutic combinations of such agents for the treatment of cancer.

No. of Pages : 63 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045707 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SHAPE CONTROL METHOD FOR ROLLING MACHINE AND SHAPE CONTROL DEVICE

(51) International classification :B21C 51/00, B21B 37/28, B21B 38/02  
(31) Priority Document No :2020-050557  
(32) Priority Date :23/03/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/005355  
Filing Date :12/02/2021  
(87) International Publication No :WO 2021/192713  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)SUZUKI, Kenji**

**2)HARADA, Yoshimitsu**

(57) Abstract :

A shape control method for a rolling machine according to the present invention includes: a measurement step for measuring a shape of a steel plate on an output side of a rolling machine; and a control step for controlling the rolling machine in such a manner that the shape of the steel plate falls within an allowable range on the basis of the shape of the steel plate measured in the measurement step. The control step includes a step for, in the case where a width of the steel plate to be rolled exceeds a predetermined value, setting a control gain to be smaller than a control gain in the case where the width of the steel plate to be rolled is equal to or less than the predetermined value.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045717 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : GAS GENERATOR AND METHOD FOR ASSEMBLING GAS GENERATOR

(51) International classification	:B01J 7/00, B60R 21/264	(71)Name of Applicant : <b>1)DAICEL CORPORATION</b>
(31) Priority Document No	:2020-013693	Address of Applicant :3-1, Ofuka-cho, Kita-ku, Osaka-shi, Osaka 5300011 Japan
(32) Priority Date	:30/01/2020	(72)Name of Inventor :
(33) Name of priority country	:Japan	<b>1)IZUMA, Toshihiro</b>
(86) International Application No	:PCT/JP2021/001799	<b>2)NAKAYASU, Yusuke</b>
Filing Date	:20/01/2021	
(87) International Publication No	:WO 2021/153368	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A gas generator is provided. A support end face that is at least one of both axial end faces of a filter is supported by a housing, in a state in which a first site which is a part of the support end face is in contact with and pressing the housing, and in a state in which a second site of the support end face which is a site other than the first site is spaced apart from the housing. The contact state between the first site of the support end face and the housing is formed annularly along the circumferential direction of the filter.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045718 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : HOT-ROLLED STEEL SHEET FOR NON-ORIENTED ELECTROMAGNETIC STEEL SHEETS, NON-ORIENTED ELECTROMAGNETIC STEEL SHEET, AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C21D 8/12, C22C 38/00, C22C 38/16, H01F 1/147	(71)Name of Applicant : <b>1)NIPPON STEEL CORPORATION</b> Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2020-027000	(72)Name of Inventor :
(32) Priority Date	:20/02/2020	<b>1)ARITA Yoshihiro</b>
(33) Name of priority country	:Japan	<b>2)ICHIE Takeru</b>
(86) International Application No	:PCT/JP2021/006348	<b>3)MURAKAMI Fuminobu</b>
Filing Date	:19/02/2021	
(87) International Publication No	:WO 2021/167065	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A hot-rolled steel sheet for non-oriented electromagnetic steel sheets according to one aspect of the present invention comprises, in % by mass, 0.0050% or less of C, 0.5 to 3.5% inclusive of Si, 0.1 to 1.5% inclusive of Mn, 0.1 to 1.5% inclusive of Al, 0.01 to 0.10% inclusive of Cu, 0.01 to 0.20% inclusive of Sn, and a remainder comprising Fe and impurities, and has a Cu concentration peak value of 0.12% or more in a region laying between the surface and a depth of 10  $\mu$ m.

No. of Pages : 24 No. of Claims : 5



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045719 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : DETECTING AND CORRECTING A VARIATION OF CURRENT REFRACTIVE ERROR AND OF CURRENT ACCOMMODATION AMPLITUDE OF A PERSON

(51) International classification	:A61B 3/00
(31) Priority Document No	:20305131.3
(32) Priority Date	:12/02/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/052909
Filing Date	:08/02/2021
(87) International Publication No	:WO 2021/160544
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)MARIN, Gildas**  
**2)NETTER, Estelle**  
**3)GIRAUDET, Guillaume**

(57) Abstract :

The disclosure relates to a method for detecting a variation of a current refractive error of a person. The method comprises obtaining (S1) an optical equipment comprising an optical lens, a dioptric function of the optical lens being adapted for correcting an initial refractive error of a person, the optical equipment further comprising a processing circuit comprising a processor operably connected to a memory. The method comprises using the memory, obtaining (S6) a current value of a parameter, the current value being indicative of a variation of a current refractive error of the person with respect to the initial refractive error. The method comprises using the processing circuit, detecting (S7) a variation of a current refractive error of the person with respect to the initial refractive error based on the obtained current value of the parameter.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045720 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MEASUREMENT AND CONTROL OF ENTRAINED AIR AND FOAM IN METALWORKING FLUIDS

(51) International classification	:G01F 25/00, G01N 29/02, A61L 2/10, G01F 1/00, G01F 23/26
(31) Priority Document No	:62/975097
(32) Priority Date	:11/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/017424
Filing Date	:10/02/2021
(87) International Publication No	:WO 2021/163168
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)BURKE, John**

**2)CROSS, Alan**

(57) Abstract :

Systems and methods for measuring air withing a fluid and for mitigating damage to a metalworking tool are disclosed. A system for measuring air within a fluid includes a fluid path having a first end and a second end; a first valve having an open position and a closed position, wherein fluid can pass through the first valve in the open position and fluid is prevented from passing through the first valve in the closed position; a first sensor located between the first valve and the second end; and a second sensor located between the first sensor and the second end, wherein the second end is higher than the first end.

No. of Pages : 27 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044032 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : IMAGE DECODING METHOD AND APPARATUS FOR CODING IMAGE INFORMATION INCLUDING PICTURE HEADER

(51) International classification	:H04N 19/70, H04N 19/44, H04N 19/174, H04N 19/30	(71)Name of Applicant : <b>1)LG ELECTRONICS INC.</b> Address of Applicant :128, Yeoui-daero, Yeongdeungpo-gu Seoul 07336 Republic of Korea
(31) Priority Document No	:62/956634	(72)Name of Inventor :
(32) Priority Date	:02/01/2020	<b>1)HENDRY, Hendry</b>
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/KR2020/019319	
Filing Date	:29/12/2020	
(87) International Publication No	:WO 2021/137588	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An image decoding method performed by a decoding apparatus according to the present document comprises the steps of: acquiring a flag indicating whether a picture header (PH) network abstraction layer (NAL) unit exists; acquiring a PH on the basis of the flag; and decoding a current picture related to the PH on the basis of the PH.

No. of Pages : 48 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044035 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR EXTRACTING SCANDIUM FROM SCANDIUM-CONTAINING MATERIALS

(51) International classification :C22B 59/00, C22B 3/12, C22B 3/24  
(31) Priority Document No :2020109988  
(32) Priority Date :10/03/2020  
(33) Name of priority country :Russia  
(86) International Application No :PCT/RU2020/050298  
Filing Date :28/10/2020  
(87) International Publication No :WO 2021/182998  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)OBSCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO- TEKHNOLOGICHESKIY TSENTR**

Address of Applicant :ul. Pogranichnikov, d. 37, str. 1 g. Krasnoyarsk, 660111 Russia

(72)Name of Inventor :  
**1)KOZYREV, Aleksandr Borisovich**  
**2)PETRAKOVA, Ol'ga Viktorovna**  
**3)SUSS, Aleksandr Gennadievich**  
**4)PANOV, Andrej Vladimirovich**

(57) Abstract :

A method for extracting scandium from scandium-containing materials comprises repulping a cake of a scandium-containing material using a solution of a sodium carbonate and sodium bicarbonate mixture, carbonization leaching the scandium-containing material using the soda-bicarbonate solution in a single step, filtering the leached scandium-containing material, and isolating a scandium concentrate. The carbonization leaching of the scandium-containing material is performed using a solution of a sodium carbonate and sodium bicarbonate mixture with a concentration of 130-350 g/dm<sup>3</sup> of Na<sub>2</sub>CO<sub>3</sub> and 2-100 g/dm<sup>3</sup> of NaHCO<sub>3</sub> at a pulp pH of 9.5-11.0 and at a temperature of 20-90 °C. The required pulp pH value is maintained by treating the pulp with a gas-air mixture containing CO<sub>2</sub>. Isolation of the scandium concentrate from the leaching filtrate is carried out in a single step by treating the filtrate with an alkali solution. The method makes it possible to increase the scandium extraction yield, to simplify the process flow scheme and to eliminate the use of sorbents and extractants.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044040 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : DRUG TRANSFER DEVICE

(51) International classification :A61J 1/20  
(31) Priority Document No :62/958909  
(32) Priority Date :09/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012572  
Filing Date :08/01/2021  
(87) International Publication No :WO 2021/142181  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)BECTON, DICKINSON AND COMPANY**  
Address of Applicant :1 Becton Drive Franklin Lakes, New  
Jersey 07417 U.S.A.  
(72)Name of Inventor :  
**1)HERRMANN, Chris**

(57) Abstract :

A drug transfer device includes a housing, a vial attachment configured to secure the drug transfer device to a drug vial, a vial transfer member defining a passageway, a cannula received within the housing, with the cannula in fluid communication with the passageway of the vial transfer member and having a first end and a second end positioned opposite from the first end, a seal arrangement positioned within the housing, with the seal arrangement movable within the housing between a first position where the cannula is isolated from the first end of the housing and a second position where the cannula is configured to be in fluid communication with a mating connector received by the first end of the housing, and a connection member defining a passageway in fluid communication with the passageway of the vial transfer member, with the connection member configured to receive a mating connector.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044049 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

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(54) Title of the invention : METHODS OF CONTROLLING OR PREVENTING PANAMA DISEASE IN BANANA PLANTS

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(51) International classification	:A01N 37/18, A01N 43/20, A01N 43/40, A01P 3/00	(71)Name of Applicant : <b>1)SYNGENTA CROP PROTECTION AG</b> Address of Applicant :Rosentalstrasse 67 4058 Basel Switzerland
(31) Priority Document No	:20154534.0	(72)Name of Inventor :
(32) Priority Date	:30/01/2020	<b>1)SIEROTZKI, Helge</b>
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2021/051949	
Filing Date	:28/01/2021	
(87) International Publication No	:WO 2021/151991	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

The present invention relates to methods for controlling or preventing Panama disease in banana plants, comprising applying to a crop of banana plants or the locus thereof, a compound according to formula (I) wherein R1, R2, R3, R4, R5, Y, A, B are as defined herein.

No. of Pages : 14 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044051 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : NETWORK SERVICE DESCRIPTOR SUPPORT FOR NETWORK SLICE ISOLATION REQUIREMENTS

(51) International classification	:H04L 12/24
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/IB2020/050758
Filing Date	:30/01/2020
(87) International Publication No	:WO 2021/152347
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)**  
Address of Applicant :164 83 Stockholm Sweden

(72)Name of Inventor :  
**1)GRITLI, Nour**  
**2)TOEROE, Maria**  
**3)KHENDEK, Ferhat**

(57) Abstract :

A non-transitory computer readable media, methods, system and network function virtualization orchestrator can be used to instantiate a network service operating as at least a portion of a network slice. A network service descriptor describing the network service comprises at least one service deployment flavor; zero or more sharing allowed attribute defining if the network service or constituent instances of the network service is allowed to be shared with another network service instance, or with its constituent instances; and zero or more external placement rule attribute defining if the network service or constituent instances of the network service, is affine or anti-affine with current and future other network service or constituent instances of the current and future other network service.

No. of Pages : 25 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044053 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF NETWORK-ASSISTED BEAMFORMED ENERGY HARVESTING SIGNALING AND CORRESPONDING APPARATUS

(51) International classification :H04B 7/06, H04W  
72/04  
(31) Priority Document No :62/967782  
(32) Priority Date :30/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/014670  
Filing Date :22/01/2021  
(87) International Publication No :WO 2021/154610  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)IDAC HOLDINGS, INC.**  
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(72)Name of Inventor :  
**1)ELKOTBY, Hussain**  
**2)PRAGADA, Ravikumar**  
**3)ABDELGELIL, Mahmoud**  
**4)HAQUE, Tanbir**  
**5)CABROL, Patrick**

(57) Abstract :

A wireless transmit/receive unit, WTRU, may include an Energy Harvesting device, EH, a Zero Energy transceiver, ZE, and a main transceiver. The WTRU may initialize operation using the main transceiver, and receive beam detection configuration and mapping information. The WTRU may initialize beam (re-) selection procedure using the ZE transceiver, and use the received beam detection configuration to determine detectable beam IDs, and use the received mapping information to retrieve EH signaling configuration. The WTRU determines expected EH performance for each detected beam, and selects the beam with best expected EH performance. On condition that the WTRU determines necessity of dynamic EH signaling for the selected beam, it proceeds with presence declaration procedure to request optimized dynamic EH signaling. The WTRU utilizes control signaling channel parameters to dynamically receive optimized EH signal configuration, and configures its EH circuitry, and harvests energy.

No. of Pages : 65 No. of Claims : 12



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044058 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PLANT REGULATORY ELEMENTS AND USES THEREOF

(51) International classification	:C12N 15/113, C12N 15/82	(71)Name of Applicant :
(31) Priority Document No	:62/969993	<b>1)MONSANTO TECHNOLOGY LLC</b>
(32) Priority Date	:04/02/2020	Address of Applicant :800 North Lindbergh Boulevard St.
(33) Name of priority country	:U.S.A.	Louis, MO 63167 U.S.A.
(86) International Application No	:PCT/US2021/013244	(72)Name of Inventor :
Filing Date	:13/01/2021	<b>1)ARMSTRONG, Charles L.</b>
(87) International Publication No	:WO 2021/158343	<b>2)KOURANOV, Andrei Y.</b>
(61) Patent of Addition to Application Number	:NA	<b>3)O'BRIEN, Brent A.</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention provides recombinant DNA molecules and constructs, as well as their nucleotide sequences, useful for modulating gene expression in plants. The invention also provides transgenic plants, plant cells, plant parts, and seeds comprising the recombinant DNA molecules operably linked to heterologous transcribable DNA molecules, as are methods of their use.

No. of Pages : 34 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044060 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : INFORMATION INDICATION METHOD AND APPARATUS FOR NON-TERRESTRIAL COMMUNICATION NETWORK

(51) International classification :H04W 72/00  
(31) Priority Document No :202010094923.3  
(32) Priority Date :14/02/2020  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2021/074508  
Filing Date :29/01/2021  
(87) International Publication No :WO 2021/159976  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)HUAWEI TECHNOLOGIES CO., LTD.**  
Address of Applicant :Huawei Administration Building,  
Bantian, Longgang District Shenzhen, Guangdong 518129 China  
(72)Name of Inventor :  
**1)QIAO, Yunfei**  
**2)WANG, Yu**

(57) Abstract :

The present application provides an information indication method and apparatus for a non-terrestrial communication network. The method comprises: a terminal receives first indication information, the first indication information comprising a bandwidth part (BWP) indication field; the BWP indication field being used for indicating a BWP identifier (BWP\_ID) offset; the terminal determines a second BWP\_ID on the basis of the BWP\_ID offset, the second BWP\_ID corresponding to a target beam of the terminal; the terminal switches to the target beam. The method can achieve the effect of extending the indication of the BWP\_ID on the premise of being compatible with the existing downlink control information (DCI) indicator.

No. of Pages : 36 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044088 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : THERMOPLASTIC RESIN COMPOSITION

(51) International classification :B29C 45/00, C08L 33/10, C08L 75/06  
(31) Priority Document No :2020-020642  
(32) Priority Date :10/02/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/004171  
Filing Date :04/02/2021  
(87) International Publication No :WO 2021/161898  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)ASAHI KASEI KABUSHIKI KAISHA**

Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo  
1000006 Japan

(72)Name of Inventor :

**1)TSUJIMOTO Katsura**

(57) Abstract :

The purpose of the present invention is to provide a thermoplastic resin composition exhibiting high transmittance, low haze, and excellent transparency, scratch resistance, and toughness. A thermoplastic resin composition according to the present invention is characterized by containing: 50-99 mass% of a methacrylic resin (A) composed of 80.0-99.9 mass% of a methacrylic acid ester monomer unit, 0.1-20.0 mass% of a vinyl monomer unit consisting of a vinyl monomer copolymerizable with a methacrylic acid ester monomer excluding maleic acid and maleic anhydride, and 0-4.0 mass% of a maleic acid and/or maleic anhydride monomer unit; and 1-50 mass% of thermoplastic polyurethane (B) having a structural unit derived from polyester polyol and a structural unit derived from isocyanate having an alicyclic ring.

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044100 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : VIA CYCLOADDITION BILATERALLY FUNCTIONALIZED ANTIBODIES

(51) International classification :A61K 47/68, A61K 47/64, A61P 35/00  
(31) Priority Document No :20151551.7  
(32) Priority Date :13/01/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/050594  
Filing Date :13/01/2021  
(87) International Publication No :WO 2021/144313  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Netherlands

(72)Name of Inventor :

**1)VAN DELFT, Floris Louis**

**2)HOOGENBOOM, Jorin**

**3)POPAL, Sorraya**

**4)VAN SCHAIK, Arnoldus Jacobus**

**5)DE BEVER, Laureen**

**6)VAN GEEL, Remon**

**7)WIJDEVEN, Maria Antonia**

**8)VAN BERKEL, Sander Sebastiaan**

(57) Abstract :

The present invention provides antibody-payload conjugates having a payload-to-antibody ratio of 1. The antibody-payload conjugate having structure (1): Formula (1) wherein: - a, b and c are each independently 0 or 1; - L1, L2 and L3 are linkers; - D is a payload; - BM is a branching moiety; - Z are connecting groups obtainable by a cycloaddition reaction. The invention further provides a method for preparing the antibody-payload conjugate according to the invention, an intermediate compound in that preparation method, and medical uses of the antibody-payload conjugate according to the invention.

No. of Pages : 113 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045721 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

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(54) Title of the invention : COMPOUNDS AND METHODS FOR SELECTIVE C-TERMINAL LABELING

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(51) International classification :C07K 1/107  
(31) Priority Document No :62/964075  
(32) Priority Date :21/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/014189  
Filing Date :20/01/2021  
(87) International Publication No :WO 2021/150614  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)QUANTUM-SI INCORPORATED**  
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06437 U.S.A.  
(72)**Name of Inventor :**  
**1)HUANG, Haidong**  
**2)NANI, Roger**  
**3)AD, Omer**  
**4)REED, Brian**  
**5)DYER, Matthew**  
**6)BOER, Robert, E.**

---

(57) Abstract :

The present disclosure relates to compounds and methods for selective C-terminal functionalization of peptides. In certain embodiments, the compounds have improved water-solubility, and are suitable for use in connection with peptide sequencing methodologies.

No. of Pages : 51 No. of Claims : 111

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045733 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CHEMICAL RECYCLING OF SOLVOLYSIS COPRODUCT STREAMS

(51) International classification	:B29B 17/04, B09B 3/00, C10J 3/00, C10G 1/10	(71)Name of Applicant : <b>1)EASTMAN CHEMICAL COMPANY</b> Address of Applicant :200 South Wilcox Drive Kingsport, TN 37660 U.S.A.
(31) Priority Document No	:62/972279	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	<b>1)DEBRUIN, Bruce, Roger</b>
(33) Name of priority country	:U.S.A.	<b>2)BITTING, Daryl</b>
(86) International Application No	:PCT/US2021/017337	<b>3)SLIVENSKY, David, Eugene</b>
Filing Date	:10/02/2021	<b>4)WU, Xianchun</b>
(87) International Publication No	:WO 2021/163100	<b>5)TRAPP, William, Lewis</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KEEVER, Travis, Wynn</b>
Filing Date	:NA	<b>7)EKART, Michael, Paul</b>
(62) Divisional to Application Number	:NA	<b>8)SHUMAN, Jaclyn, Erin</b>
Filing Date	:NA	<b>9)SCHAEFER, Timothy, Glenn</b>
		<b>10)MURPHY, Justin, William</b>
		<b>11)LANGE, David, Milton</b>
		<b>12)EDENS, Aaron, Nathaniel</b>

(57) Abstract :

Chemical recycling facilities for processing mixed plastic waste are provided herein. Such facilities have the capability of processing mixed plastic waste streams and utilize a variety of recycling facilities, such as, for example, solvolysis facility, a pyrolysis facility, a cracker facility, a partial oxidation gasification facility, an energy generation/energy production facility, and a solidification facility. Streams from one or more of these individual facilities may be used as feed to one or more of the other facilities, thereby maximizing recovery of valuable chemical components and minimizing unusable waste streams.

No. of Pages : 186 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045739 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : NEW METHOD OF SYNTHESIS OF CHITOSAN DERIVATIVES AND USES THEREOF

(51) International classification :C08J 3/24, A61K  
47/69, C07H 5/06,  
C08B 37/08, C08L  
5/08  
(31) Priority Document No :RU2020106398  
(32) Priority Date :11/02/2020  
(33) Name of priority country :Russia  
(86) International Application No :PCT/EP2021/053204  
Filing Date :10/02/2021  
(87) International Publication No :WO 2021/160667  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)NOVOCHIZOL SA**

Address of Applicant :Route de l'Ile-au-Bois 1a 1870 Monthey  
Switzerland

(72)Name of Inventor :

**1)KARGAPOLOV, Yuriy**

**2)FOMENKO, Vladislav**

(57) Abstract :

The present invention is directed to a new cross-linked chitosan, preparations, compositions and uses thereof. In particular, the invention relates to nanoparticles and compositions thereof useful as active agents and delivery systems for at least one bioactive agent.

No. of Pages : 65 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045740 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : STEEL SHEET, MEMBER, AND METHODS RESPECTIVELY FOR PRODUCING SAID STEEL SHEET AND SAID MEMBER

(51) International classification :C22C 38/00, C21D 9/46, C22C 38/06, C22C 38/60  
(31) Priority Document No :2020-033057  
(32) Priority Date :28/02/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/006716  
Filing Date :24/02/2021  
(87) International Publication No :WO 2021/172299  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)WADA Yusuke**

**2)NAKAGAITO Tatsuya**

**3)TERASHIMA Shotaro**

**4)Yang Lingling**

**5)YOKOTA Takeshi**

(57) Abstract :

The purpose of the present invention is to provide: a steel sheet which has high strength and satisfactory ductility and stretch-flange formability and is prevented from the deterioration in ductility under a high strain rate; a member produced using the steel sheet; and methods respectively for producing the steel sheet and the member. The steel sheet according to the present invention has a specified component composition and a steel structure comprising, in area ratios, ferrite in an amount of 20 to 60%, inclusive, bainite and tempered martensite in a total amount of 25 to 60%, inclusive, retained austenite in an amount of 7 to 20%, inclusive, fresh martensite in an amount of 8 to 40%, inclusive, and a remainder in an amount of 5% or less, in which cementite particles are present in the retained austenite, the ratio of the area ratio of the cementite particles in the retained austenite to the area ratio of the retained austenite is 5 to 25%, inclusive, and the tensile strength is 980 MPa or more.

No. of Pages : 51 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045741 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MOTOR DRIVE UNIT AND MANUFACTURING METHOD THEREOF

(51) International classification :F16H 57/033  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/JP2020/010372  
Filing Date :10/03/2020  
(87) International Publication No :WO 2021/181539  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Toyohashi-shi, Aichi 4418560 Japan  
(72)Name of Inventor :  
**1)YAMAMOTO Kenta**  
**2)OKAMOTO Teruhisa**

(57) Abstract :

A motor drive unit in which a reduction gear device includes an input shaft, a counter shaft, and an output shaft that are mutually parallel to each other, and a gear set is constituted by an input gear fixed on the input shaft, first and second intermediate gears on the counter shaft, and an output gear fixed on the output shaft to transmit the rotation of the input shaft to the output shaft while reducing the speed thereof, the motor drive unit comprising one gear set selected from multiple gear sets (G1-G3) having different total reduction gear ratios between the input gear (20) and the output gear (23) and a case (Cr) in which any of the multiple gear sets can be housed and mounted, wherein for each of the multiple gear sets, the center distances between the input shaft (Si), counter shaft (Sc), and output shaft (So) are identical to those in the other gear sets and the gear diameter of at least one of the first and second intermediate gears (21, 22) is different from that in the other gear sets. By adopting the configuration above, the same case can be used for multiple gear sets having different total reduction gear ratios and thus the cost can be reduced.

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044117 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SENSING APPARATUS

(51) International classification :H04R 7/02, H04R  
7/10, H04R 1/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2021/106947  
Filing Date :16/07/2021  
(87) International Publication No :WO 2023/283966  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)YUAN, Yongshuai**  
**3)ZHOU, Wenbing**  
**4)HUANG, Yujia**

(57) Abstract :

A sensing apparatus (10, 210), comprising: an elastic component (20, 220, 720, 820); a sensing cavity (50, 250), wherein the elastic component (20, 220, 720, 820) forms a first sidewall of the sensing cavity (50, 250); and a transduction component (30, 230), configured to obtain a sensing signal and convert the sensing signal into an electrical signal, wherein the transduction component (30, 230) is communicated with the sensing cavity (50, 250), the sensing signal is correlated with the size change of the sensing cavity (50, 250), the side of the elastic component (20, 220, 720, 820) facing the sensing cavity (50, 250) is provided with a protruding structure (23, 223, 823), the elastic component (20, 220, 720, 820) drives, in response to an external signal, the protruding structure (23, 223, 823) to move, and the movement of the protruding structure (23, 223, 823) changes the size of the sensing cavity (50, 250).

No. of Pages : 41 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044147 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SENSING AND OFFSETTING THE FORCE OF EVENTS IN A COIL FORMING OPERATION

(51) International classification :B21C 47/04  
(31) Priority Document No :62/964200  
(32) Priority Date :22/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2020/064533  
Filing Date :11/12/2020  
(87) International Publication No :WO 2021/150315  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)NOVELIS INC.**  
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(72)**Name of Inventor :**  
**1)BROWN, Rodger Eugene**  
**2)STANISTREET, Timothy Francis**

(57) Abstract :

Systems and methods directed to rolling mill coilers are disclosed. Systems and methods are disclosed for a control scheme to maintain a constant force between a roll and a coil's surface. Example systems and methods may include forming a portion of a coil, capturing a first coil data corresponding to force of the coil while the strip of metal is being rolled into the coil, capturing second coil data corresponding to position of the coil while the strip of metal is being rolled into the coil, determining a signal that corresponds to a roll force of the roll and a position of the protrusion, and transmitting the signal to a hydraulic cylinder coupled to the roll, the hydraulic cylinder causing the roll to exert the roll force counter to the radial force of the coil.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044148 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LIGANDS FOR TRANSITION METAL CATALYSTS

(51) International classification :C07F 15/00, B01J  
31/00  
(31) Priority Document No :62/958565  
(32) Priority Date :08/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012726  
Filing Date :08/01/2021  
(87) International Publication No :WO 2021/142281  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)ZHAO, Qun**  
**3)MENG, Guangrong**  
**4)LI, Guangchen**

(57) Abstract :

Provided herein are a new class of extremely sterically-bulky, easily prepared N-heterocyclic carbene (NHC) ligands of Formula I, or a salt, solvate, geometric isomer, or stereoisomer thereof. The ligands are readily synthetically accessible exploiting the cost-effective, modular alkylation of anilines, an industrial chemical that is available in bulk. The NHC ligands form effective catalysts with transition metals such as Pd.

No. of Pages : 50 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044150 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : TOPICAL NALOXONE COMPOSITIONS AND METHODS FOR USING THE SAME

(51) International classification :A61K 31/485, A61K 47/10, A61K 47/12  
(31) Priority Document No :62/976967  
(32) Priority Date :14/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/017550  
Filing Date :11/02/2021  
(87) International Publication No :WO 2021/163252  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :

**1)SHUDO, Jutaro**

**2)WEN, Jianye**

**3)HAYNES, Russell**

**4)SUNKARA, Asha**

**5)BERNER, Bret**

(57) Abstract :

Aspects of the invention include topical naloxone compositions for locally delivering naloxone to the skin of a subject. Topical compositions according to certain embodiments are storage stable non-aqueous topical compositions that include naloxone free base and a non-aqueous vehicle, wherein the compositions are substantially free of naloxone N-oxide. Also provided are methods of using the topical compositions to locally deliver naloxone to a subject, as well as kits containing the topical naloxone compositions.

No. of Pages : 48 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044168 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD, SYSTEMS AND APPARATUS FOR INTELLIGENTLY EMULATING FACTORY CONTROL SYSTEMS AND SIMULATING RESPONSE DATA

(51) International classification :G06F 21/56, G05B 13/04, G05B 19/04, G06F 9/455, G06K 9/62  
(31) Priority Document No :62/983510  
(32) Priority Date :28/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/019857  
Filing Date :26/02/2021  
(87) International Publication No :WO 2021/173961  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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**1)PUTMAN, Matthew, C.**  
**2)PUTMAN, John, B.**  
**3)PINSKIY, Vadim**  
**4)SUNDSTROM, Andrew**  
**5)WILLIAMS, James, III**

(57) Abstract :

A controller emulator, coupled to an interface that exposes the controller emulator to inputs from external sources, provides one or more control signals to a process simulator and a deep learning process. In response, the process simulator simulates response data that is provided to the deep learning processor. The deep learning processor generates expected response data and expected behavioral pattern data for the one or more control signals, as well as actual behavioral pattern data for the simulated response data. A comparison of at least one of the simulated response data to the expected response data and the actual behavioral pattern data to the expected behavioral pattern data is performed to determine whether anomalous activity is detected. As a result of detecting anomalous activity, one or more operations are performed to address the anomalous activity.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045742 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : AIR-CONDITIONING SYSTEM, AIR-CONDITIONING CONTROL METHOD, AND AIR-CONDITIONING CONTROL PROGRAM

(51) International classification	:F25D 11/00, F25D 23/00, B60P 3/20	(71)Name of Applicant :
(31) Priority Document No	:2020-021748	<b>1)DENSO CORPORATION</b>
(32) Priority Date	:12/02/2020	Address of Applicant :1-1, Showa-cho, Kariya-city Aichi
(33) Name of priority country	:Japan	4488661 Japan
(86) International Application No	:PCT/JP2020/048189	(72)Name of Inventor :
Filing Date	:23/12/2020	<b>1)ENOMOTO Nobuyuki</b>
(87) International Publication No	:WO 2021/161670	<b>2)TOMITA Noriyuki</b>
(61) Patent of Addition to Application Number	:NA	<b>3)MIZUMA Ikuo</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An air-conditioning system that comprises an air-conditioning device that is installed in a mobile body that has cold storage, a storage inside temperature sensor that measures a storage inside temperature that is the temperature inside the cold storage, a reporting device for reporting errors at the air-conditioning device, and a control unit that performs control related to air-conditioning operations. The control unit comprises an acquisition unit that acquires the storage inside temperature, a setting unit that sets an appropriate temperature range for the cold storage, a determination unit that determines whether the storage inside temperature is within the appropriate temperature range, and a reporting control unit that controls error reporting that uses the reporting device. The reporting control unit performs temperature error reporting when the air-conditioning device has completed precooling and the storage inside temperature is outside the appropriate temperature range but does not perform temperature error reporting before the air-conditioning device has completed precooling. The present invention thereby provides an air-conditioning system and the like that can effectively report errors.

No. of Pages : 52 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045743 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : STEEL SHEET, MEMBER, AND METHODS RESPECTIVELY FOR PRODUCING SAID STEEL SHEET AND SAID MEMBER

(51) International classification

:C22C 38/00, C21D  
9/46, C22C 38/06,  
C22C 38/60

(31) Priority Document No

:2020-033056

(32) Priority Date

:28/02/2020

(33) Name of priority country

:Japan

(86) International Application No

:PCT/JP2021/006715

Filing Date

:24/02/2021

(87) International Publication No

:WO 2021/172298

(61) Patent of Addition to Application  
Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

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**3)TERASHIMA Shotaro**

**4)YANG Lingling**

**5)YOKOTA Takeshi**

(57) Abstract :

The purpose of the present invention is to provide: a steel sheet which has high strength and satisfactory ductility and stretch-flange formability and is prevented from the deterioration in ductility under a high strain rate; a member produced using the steel sheet; and methods respectively for producing the steel sheet and the member. The steel sheet according to the present invention has a specified component composition and a steel structure comprising, in area ratios, ferrite in an amount of 40 to 70%, inclusive, bainite and tempered martensite in a total amount of 5 to 30%, inclusive, retained austenite in an amount of 4 to 18% inclusive, fresh martensite in an amount of 8 to 35%, inclusive, and a remainder in an amount of 5% or less, in which cementite particles are present in the retained austenite, the ratio of the area ratio of the cementite particles in the retained austenite to the area ratio of the retained austenite is 5 to 25%, inclusive, and the tensile strength is 780 MPa or more and less than 980 MPa.

No. of Pages : 51 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045744 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND APPARATUS OF VIDEO CODING USING PALETTE MODE

(51) International classification :H04N 19/105, H04N 19/70, H04N 19/96, H04N 19/186, H04N 19/184

(31) Priority Document No :62/959913

(32) Priority Date :11/01/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/012964  
Filing Date :11/01/2021

(87) International Publication No :WO 2021/142446

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

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

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**3)XIU, Xiaoyu**

**4)WANG, Xianglin**

**5)MA, Tsung-chuan**

**6)YU, Bing**

(57) Abstract :

An electronic apparatus performs a method of decoding video data. The method comprises: receiving, from bitstream, a plurality of syntax elements associated with a coding unit, wherein the plurality of syntax elements indicate a size of the coding unit and a coding tree type of the coding unit; determining a minimum palette mode block size for the coding unit in accordance with the coding tree type of the coding unit; in accordance with a determination that the size of the coding unit is greater than the minimum palette mode block size: receiving, from the bitstream, a palette mode enable flag associated with the coding unit; and decoding, from the bitstream, the coding unit in accordance with the palette mode enable flag.

No. of Pages : 51 No. of Claims : 8

(54) Title of the invention : MACHINE FOR PRODUCING MARBLE TILES AND RELATED METHOD

(51) International classification :B28D 1/04  
 (31) Priority Document No :102020000001321  
 (32) Priority Date :23/01/2020  
 (33) Name of priority country :Italy  
 (86) International Application No :PCT/IT2021/050021  
 Filing Date :22/01/2021  
 (87) International Publication No :WO 2021/149089  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

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**1)TONGIANI, Stefano**

(57) Abstract :

This invention relates to a machine (1) for producing tiles from a block (100), in particular a block (100) of marble, granite and the like, said machine (1) comprising a support surface (5') for supporting said block (100), said machine (1) being characterised in that it comprises a plurality of first cutting means (D1,..., Dn) for cutting said block (100) parallel to a first horizontal direction (X), said first cutting means (D1,..., Dn) being placed above said support surface (5'), comprising respective lower edges, configured to cut said block (100) on the upper part, said lower edges being placed at the same adjustable height, with reference to a vertical direction (Z), and being arranged aligned along at least a first horizontal axis (y'), parallel to a second horizontal line (Y), orthogonal to said first horizontal direction (X); in that said machine (1) comprises a second cutting means (E) for cutting said block (100) parallel to said second horizontal line (Y), said second cutting means (E) being configured to move along a second horizontal axis (y) relative to said support surface (5'), said second horizontal axis (y) being parallel or inclined with respect to said second horizontal line (Y) by a first angle  $\alpha 90^\circ$ , said second cutting means (E) having, during use, a resting position, wherein it does not interact with the block (100), and a working position, comprising a lower edge placed at said same adjustable height as said first cutting means (D1,..., Dn); in that said machine (1) comprises a horizontal blade (43) for cutting said block (100) along a horizontal plane, said horizontal blade (43) comprising a first cutting side (430) placed at said same adjustable height as said first cutting means (D1,..., Dn), and in that said support surface (5') is configured to move on said horizontal line (X) along a first cutting direction (X1), relative to said first cutting means (D1 Dn), to said second cutting means (E), and to said horizontal blade (43), said horizontal blade (43) being placed downstream of said first horizontal axis (y') and said second horizontal axis (y), with reference to said first cutting direction (X1). This invention also relates to a method for cutting a block of marble and the like, into a plurality of tiles.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044169 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SN-BASED PLATED STEEL SHEET

(51) International classification :C23C 28/00  
(31) Priority Document No :2020-056475  
(32) Priority Date :26/03/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/003585  
Filing Date :01/02/2021  
(87) International Publication No :WO 2021/192614  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)YOKOYA, Hirokazu**  
**3)SATO, Yasuhiko**  
**4)ANDO, Hiroaki**  
**5)NAKASONE, Nobuo**

(57) Abstract :

[Problem] To provide an Sn-based plated steel sheet capable of exhibiting superior corrosion resistance, yellowing resistance, coating film adhesion, and sulfurization blackening resistance without using a chromate film. [Solution] The present invention pertains to an Sn-based plated steel sheet comprising a steel sheet, an Sn-based plating layer disposed on at least one surface of the steel sheet, and a film layer disposed on the Sn-based plating layer, wherein the Sn-based plating layer contains Sn at 1.0 g/m<sup>2</sup> to 15.0 g/m<sup>2</sup> per side in terms of metal Sn, the film layer contains a zirconium oxide at 1.0 g/m<sup>2</sup> to 10.0 g/m<sup>2</sup> per side in terms of metal Zr, the zirconium oxide includes an amorphous zirconium oxide, and a crystalline layer containing a crystalline zirconium oxide as a main component is present as an upper layer of the amorphous zirconium oxide.

No. of Pages : 31 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044170 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SPRAY UNIT

(51) International classification :A01M 7/00  
(31) Priority Document No :20155553.9  
(32) Priority Date :05/02/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/051916  
Filing Date :28/01/2021  
(87) International Publication No :WO 2021/156126  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)FAERS, Malcolm**  
**2)SATO, Yoshitaka**  
**3)CHAPPLE, Andrew, Charles**

(57) Abstract :

The invention relates to a spray unit comprising an axle (20), a disc (30), a disc shape modifying assembly (40) and a liquid applicator (50). The disc is configured to spin about the axle centred on the centre of the disc. The liquid applicator is configured to apply liquid to a surface of the disc. The disc shape modifying assembly is configured to modify the trajectory of the liquid droplets that leave the spray unit by way of varying the diameter of the disc.

No. of Pages : 23 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044171 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : BONDED COMPONENT AND METHOD FOR PRODUCING SAME

(51) International classification :C21D 9/00, C21D 9/46, C22C 21/00, C22C 21/02, C22C 38/00  
(31) Priority Document No :2020-022754  
(32) Priority Date :13/02/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/005292  
Filing Date :12/02/2021  
(87) International Publication No :WO 2021/162101  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)TABATA Shinichiro**

**2)KUSUMI Kazuhisa**

(57) Abstract :

This bonded component comprises a first steel member, a second steel member, and a spot welding part which bonds the first steel member and the second steel member to each other. The first steel member comprises: a steel sheet base material that is composed of a specific chemical composition; and a coating that is formed on the surface of the steel sheet base material and contains Al and Fe, while having a thickness of 25  $\mu\text{m}$  or more. In a cross-section of the first steel member and the second steel member including the spot welding part in the thickness direction, an infill containing Al and Fe is present in a space around the spot welding part between the first steel member and the second steel member. The infill has a cross-sectional area of  $3.0 \times 10^4 \mu\text{m}^2$  or more and is composed of a first region and a second region, while having a filling rate of 80% or more in the space within the range from the edge to 100  $\mu\text{m}$  of a corona bond that is formed around the spot welding part.

No. of Pages : 65 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044187 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : AGNOSTIC AUGMENTATION OF A CUSTOMER RELATIONSHIP MANAGEMENT APPLICATION

(51) International classification	:G06Q 30/00, G06Q 30/02, H04M 3/51, G06F 3/048
(31) Priority Document No	:16/776488
(32) Priority Date	:29/01/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/070086
Filing Date	:28/01/2021
(87) International Publication No	:WO 2021/155401
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**1)COPELAND, Shannon**

(57) Abstract :

Automated computing machinery that agnostically augments a customer relationship management (CRM) application, including a leadership hub with computer memory configured according to a logical table, with logical columns identifying sales campaigns and a column identifying tele-agents, including also logical rows, each row representing an assignment of a tele-agent to work on a sales campaign; and a campaign management portal with computer memory configured according to a logical table, with logical columns identifying sales campaigns and a column identifying display templates, including also logical rows, each row associating a sales campaign and a display template comprising at least one sales campaign question and an answer form for the question; the leadership hub and the campaign management portal operative to display the template as an overlay of a web page of a CRM.

No. of Pages : 21 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044188 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CIRCUIT PROTECTION DEVICE AND SYSTEM WITH POWER SUPPLY CONVERSION AND CONTROL FOR DC LOADS

(51) International classification	:H02H 3/05, H02H 9/00
(31) Priority Document No	:10 2020 102 399.5
(32) Priority Date	:31/01/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/025030
Filing Date	:27/01/2021
(87) International Publication No	:WO 2021/151623
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**2)MANAHAN, Joseph**

(57) Abstract :

Hazardous location compliant solid state circuit protection device (100) includes at least one solid state switching element (142a-d) and a load controller (170). The solid state switching element operates in an arc-free manner to limit or preclude electrical current flow from the line-side terminal (132) to the load-side terminal (136). The load controller includes power converter circuitry (172) operative to convert an alternating current (AC) power supply input to the line- side terminal to a direct current (DC) power output at the load side terminal. One or more DC devices may be coupled to the DC power output at the load side terminal.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045755 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

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(54) Title of the invention : VENTING VALVE AND METHOD OF MOUNTING VALVE STEM OF VENTING VALVE

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(51) International classification	:B29D 30/06
(31) Priority Document No	:20205042
(32) Priority Date	:16/01/2020
(33) Name of priority country	:Finland
(86) International Application No	:PCT/FI2021/050018
Filing Date	:13/01/2021
(87) International Publication No	:WO 2021/144503
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :
<b>1)WD RACING OY</b>
Address of Applicant :Kuljuntie 9 37200 Siuro Finland
(72)Name of Inventor :
<b>1)PENKKIMÄKI, Pekka</b>

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(57) Abstract :

The invention relates to a venting valve and method of mounting a valve stem of a venting valve. The venting valve (3) comprises a valve body (4) inside which is a venting channel (5) which is provided with a movable valve stem (6) comprising a valve member (7) and a collar (8) at an opposite end of the valve stem. A spring element (9) is arranged around the valve stem. Movement of the valve stem is limited by means of an internal retaining ring (11) mounted to inside the venting channel.

No. of Pages : 17 No. of Claims : 19



(54) Title of the invention : HETEROPHASIC POLYPROPYLENE COMPOSITIONS COMPRISING A RECYCLED MATERIAL AS MODIFIER WITH AN IMPROVED BALANCE OF MECHANICAL PROPERTIES

(51) International classification :C08F 210/06, C08L 23/12, C08F 4/659  
 (31) Priority Document No :20151946.9  
 (32) Priority Date :15/01/2020  
 (33) Name of priority country :EPO  
 (86) International Application No :PCT/EP2021/050767  
     Filing Date :15/01/2021  
 (87) International Publication No :WO 2021/144401  
 (61) Patent of Addition to Application Number :NA  
     Filing Date :NA  
 (62) Divisional to Application Number :NA  
     Filing Date :NA

(71)Name of Applicant :

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Austria

(72)Name of Inventor :

**1)WANG, Jingbo**

**2)GAHLEITNER, Markus**

**3)BERNREITNER, Klaus**

**4)BRAUN, Hermann**

(57) Abstract :

A polypropylene composition (C) obtainable by blending: a) 55.0 to 95.0 wt.-% of a heterophasic propylene copolymer (HECO) defined by its crystalline fraction content (78.0 to 92.0 wt.-%), soluble fraction content (8.0 to 22.0 wt.-%), C2 content of said soluble fraction (15.0 to 30.0 wt.-%) and intrinsic viscosity of the soluble fraction (1.80 to 3.50 dl/g), b) 5.0 to 45.0 wt.-% of a blend (A) comprising 30 to 70 wt.-% of isotactic propylene homopolymer, 20 to 50 wt.-% of polyethylene and ethylene containing copolymers, 1 ppm to 100 ppm of limonene, and 1 ppm to 200 ppm total fatty acid content, wherein blend (A) is a recycled material recovered from a waste plastic material derived from post-consumer and/or post-industrial waste; wherein the polypropylene composition (C) has a melt flow rate (MFR2) of 15.0 to 50.0 g/10 min.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045769 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : NEEDLELESS CONNECTOR HAVING CHECK VALVE WITH CONCAVE FLOW SURFACE

(51) International classification :A61M 39/26, A61M 39/10  
(31) Priority Document No :16/745220  
(32) Priority Date :16/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/013133  
Filing Date :12/01/2021  
(87) International Publication No :WO 2021/146216  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)CAREFUSION 303, INC.**  
Address of Applicant :3750 Torrey View Court San Diego,  
California 92130 U.S.A.  
(72)Name of Inventor :  
**1)FEITH, Raymond P.**  
**2)KIPP, Randy**  
**3)SHAMS KOPAYE, Adel**

(57) Abstract :

A needleless connector may include a housing having an inlet port, an outlet port, and an inner surface defining an internal cavity extending between the inlet and outlet ports, and a compressible valve reciprocally disposed within the internal cavity. In a closed state, a top section of a head portion of the compressible valve may have a planar shape configured to contact and seal against the inner surface of the housing. In an open state, where the compressible valve is subject to an axial force, the top section of the head portion may be lodged between two pinch points between opposing walls of an inwardly angled portion of the internal surface. Additionally, in the open state, the top section of the head portion may have a non-planar shape defining a fluid path extending at least partially between opposing walls on an outwardly angled portion of the internal surface.

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045772 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CHEMICAL RECYCLING OF POLYOLEFIN-CONTAINING PLASTIC WASTE AND SOLVOLYSIS COPRODUCT STREAMS

(51) International classification	:B29B 17/04, B29B 17/02	(71)Name of Applicant : <b>1)EASTMAN CHEMICAL COMPANY</b> Address of Applicant :200 South Wilcox Drive Kingsport, TN 37660 U.S.A.
(31) Priority Document No	:62/972282	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	<b>1)DEBRUIN, Bruce, Roger</b>
(33) Name of priority country	:U.S.A.	<b>2)BITTING, Daryl</b>
(86) International Application No	:PCT/US2021/017340	<b>3)SLIVENSKY, David, Eugene</b>
Filing Date	:10/02/2021	<b>4)WU, Xianchun</b>
(87) International Publication No	:WO 2021/163102	<b>5)TRAPP, William, Lewis</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KEEVER, Travis, Wynn</b>
Filing Date	:NA	<b>7)EKART, Michael, Paul</b>
(62) Divisional to Application Number	:NA	<b>8)SHUMAN, Jaclyn, Erin</b>
Filing Date	:NA	<b>9)SCHAEFER, Timothy, Glenn</b>
		<b>10)MURPHY, Justin, William</b>
		<b>11)LANGE, David, Milton</b>
		<b>12)EDENS, Aaron, Nathaniel</b>

(57) Abstract :

Chemical recycling facilities for processing mixed plastic waste are provided herein. Such facilities have the capability of processing mixed plastic waste streams and utilize a variety of recycling facilities, such as, for example, solvolysis facility, a pyrolysis facility, a cracker facility, a partial oxidation gasification facility, an energy generation/energy production facility, and a solidification facility. Streams from one or more of these individual facilities may be used as feed to one or more of the other facilities, thereby maximizing recovery of valuable chemical components and minimizing unusable waste streams.

No. of Pages : 173 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045778 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD, APPARATUS AND SYSTEM FOR MOBILE DEVICE LOCATION DETERMINATION

(51) International classification :H04W 64/00  
(31) Priority Document No :62/971077  
(32) Priority Date :06/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/CN2021/075682  
Filing Date :06/02/2021  
(87) International Publication No :WO 2021/155855  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)HUAWEI TECHNOLOGIES CO., LTD.**  
Address of Applicant :Huawei Administration Building  
Bantian, Longgang District Shenzhen, Guangdong 518129 China  
(72)**Name of Inventor :**  
**1)ZHANG, Hang**

(57) Abstract :

Method, system and device for obtaining location information of a mobile device coupled to a wireless network. A request for a location of the device at a first set of times is transmitted by the mobile device toward a first function. A location of the device at the set of times is determined. In response to receipt of the request, the first function replies with an indication of location of the device at the specified times. The mobile device then performs a local tracking operation to determine a location of the device at another time. The local tracking operation is based on the location of the device at the specified times and local input indicative of motion of the device between at least one of the set of times and the other time.

No. of Pages : 30 No. of Claims : 25

(54) Title of the invention : FREQUENCY RANGE DRIVEN NETWORK SLICING

(51) International classification :H04W 48/18, H04W 8/24  
(31) Priority Document No :62/956441  
(32) Priority Date :02/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2020/067613  
Filing Date :31/12/2020  
(87) International Publication No :WO 2021/138526  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)INTERDIGITAL PATENT HOLDINGS, INC.**  
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(72)**Name of Inventor :**  
**1)NINGLEKHU, Jiwan**  
**2)STARSINIC, Michael**  
**3)LI, Hongkun**  
**4)MLADIN, Catalina**  
**5)LY, Quang**  
**6)MURRAY, Joseph**  
**7)ADJAKPLE, Pascal**

(57) Abstract :  
Network Slice Selection Assistance information (NSSAI) may be signaled between User Equipment (UE) and a network. NSSAI sent from the network to the UE may include, for example. Operating Frequency Band (OFB) for each Single NSSAI(S-NSSAI) in the NSSAI, as well as a Radio Access Technology (RAT) Frequency Selection Priority (RFSP) index, which the network configures as a part of UE access and mobility; subscription, during a UE registration procedure. RAT restrictions may be enhanced to indicate to the UE that certain slices are not accessible via certain RATs. A UE may be provided by the network with an alternative NSSAI and corresponding OFBs for each S-NSSAI thereby indicating to the UE that these S-NSSAI would have been allowed had they been requested. A UE may be able to choose an alternative Allowed NSSAI and send a registration update request to the network.

No. of Pages : 99 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044211 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPACT RECONFIGURABLE INTEGRATED LASER-PHACO SYSTEMS AND METHODS OF USE

(51) International classification :A61F 9/008, A61B 18/20, A61F 9/00, A61F 9/007, A61F 9/009

(31) Priority Document No :62/956731

(32) Priority Date :03/01/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/012010  
Filing Date :01/01/2021

(87) International Publication No :WO 2021/138642

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

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

(71)Name of Applicant :

**1)LENSAR, INC.**

Address of Applicant :2800 Discovery Dr. Orlando, FL 32826 U.S.A.

(72)Name of Inventor :

**1)MCWHIRTER, John**

**2)GRAY, Gary, P.**

**3)NEWTON, Arthur**

**4)TEUMA, E., Valaski**

**5)CONNAUGHTON, Alan**

**6)MORLEY, Dustin**

**7)CURATU, George**

**8)ANDERSON, Scott**

**9)MCPHERSON, Dale**

(57) Abstract :

A fully integrated laser-ultrasound, including femto-phaco, system having a foot print of less than 1,500 sq inches. Integrated communication and control system for laser-ultrasound, including femto-phaco, system including common control system and GUI. A reconfigurable laser- ultrasound, including femto-phaco, femto-phaco system having different configurations and positions of a laser delivery head, and having a single laser beam path length for all configurations. Integrated systems and methods for performing laser and phacoemulsification operations. A reconfigurable system for performing a laser procedure in a laser configuration, and then being reconfigured into a phaco configuration, to perform a phacoemulsification, and then being reconfigured back to the laser configuration.

No. of Pages : 95 No. of Claims : 69

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044212 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : INTEGRATED SYSTEMS FOR PREDETERMINED COMBINATION LASER-PHACOEMULSIFICATION THERAPIES

(51) International classification	:A61F 9/008, A61B 18/20	(71)Name of Applicant : <b>1)LENSAR, INC.</b> Address of Applicant :2800 Discovery Dr. Orlando, FL 32826 U.S.A.
(31) Priority Document No	:62/956731	(72)Name of Inventor :
(32) Priority Date	:03/01/2020	<b>1)GRAY, Gary, P.</b>
(33) Name of priority country	:U.S.A.	<b>2)MCWHIRTER, John</b>
(86) International Application No	:PCT/US2021/012009	<b>3)NEWTON, Arthur</b>
Filing Date	:01/01/2021	<b>4)TEUMA, E., Valaski</b>
(87) International Publication No	:WO 2021/138641	<b>5)CONNAUGHTON, Alan</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MORLEY, Dustin</b>
Filing Date	:NA	<b>7)CURATU, George</b>
(62) Divisional to Application Number	:NA	<b>8)ANDERSON, Scott</b>
Filing Date	:NA	<b>9)MCPHERSON, Dale</b>

(57) Abstract :

Integrated systems and methods for performing laser and phacoemulsification operations. A reconfigurable system for performing a laser procedure in a laser configuration, and then being reconfigured into a phaco configuration, to perform a phacoemulsification, and then being reconfigured back to the laser configuration. Non-handed systems that provide full position and usage around a patient. Integrated imaging, cataract grading and determination of combination laser-ultrasound therapies, including femto-phaco, therapies. Integrated control and determining systems for recommending and delivering predetermined laser shot patterns and predetermined phacoemulsification procedures to address conditions of the eye, including cataracts.

No. of Pages : 95 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044217 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : INJECTION SYSTEMS, INJECTION TOOLS AND METHODS FOR SAME

(51) International classification :A01G 17/06  
(31) Priority Document No :62/967555  
(32) Priority Date :29/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2021/052111  
Filing Date :29/01/2021  
(87) International Publication No :WO 2021/152093  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)INVAIO SCIENCES INTERNATIONAL GMBH**  
Address of Applicant :Schneidergasse 7 4051 Basel  
Switzerland  
(72)Name of Inventor :  
**1)WIDMER, Urs**  
**2)OEHL, Michael Christian**  
**3)SCHÜPBACH, Lukas Rudolf**  
**4)CHETTOOR, Antony Mathai**  
**5)VERWEIRE, Dimitri**

(57) Abstract :

A plant injection system includes an injection tool configured to penetrate a plant and distribute a liquid formulation to the plant. The injection tool includes a base having a plurality of inlet ports and a penetrating distribution body extending along a longitudinal body axis. The penetrating distribution body includes a penetrating element to penetrate the plant, and one or more distribution ports in communication with the inlet ports to distribute the liquid formulation to the plant. The injection tools is configured to precisely inject liquid formulation into the vascular system of the plant.

No. of Pages : 180 No. of Claims : 30



(54) Title of the invention : RESISTANCE SPOT WELDING METHOD AND MANUFACTURING METHOD FOR RESISTANCE SPOT WELDED JOINT

(51) International classification :C22C 38/00, C22C 38/04, C22C 38/58, B23K 11/11  
 (31) Priority Document No :2020-037467  
 (32) Priority Date :05/03/2020  
 (33) Name of priority country :Japan  
 (86) International Application No :PCT/JP2021/007786  
 Filing Date :01/03/2021  
 (87) International Publication No :WO 2021/177254  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)ENDO Reiko**

**2)MATSUSHITA Muneo**

**3)OKITA Yasuaki**

**4)MATSUDA Hiroshi**

(57) Abstract :

Provided are a resistance spot welding method and a manufacturing method for a resistance spot welded joint. The present invention is a resistance spot welding method in which a sheet assembly having two or more steel sheets overlapped therein is clamped with a pair of welding electrodes and joined by performing energization while applying pressure. At least one of the steel sheets within the sheet assembly is a high-strength steel sheet. The method has a main energization step in which energization is performed at a current value  $I_W$  (kA), and a post-tempering thermal treatment step. The post-tempering thermal treatment step has a cooling process in which a cooling period  $t_{ct}$  (ms) is provided, a heating process in which energization is performed over an energization period  $t_t$  (ms) at a current value  $I_t$  (kA) that is represented by expression (2), and a transition process in which the energization current is continuously reduced from the current value  $I_t$  (kA) to a current value  $I_{tm}$  (kA) over a downslope energization period  $t_{tma}$  (ms) and/or a maintenance process in which a weld section is energized at the current value  $I_{tm}$  (kA) over an energization period  $t_{tm}$  (ms).  
 Expression (2):  $0.8 \times I_w = I_t = 1.6 \times I_w$

No. of Pages : 48 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045788 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : TEMPERATURE INDICATOR

(51) International classification :G01K 1/08, G01K  
1/02, G06K 19/077  
(31) Priority Document No :62/960840  
(32) Priority Date :14/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/013445  
Filing Date :14/01/2021  
(87) International Publication No :WO 2021/146427  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SHOCKWATCH, INC.**  
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TX 75240 U.S.A.  
(72)Name of Inventor :  
**1)FONK, Anthony, N.**  
**2)VAN NIEKERK, Johannes**

(57) Abstract :

A temperature indicator includes a housing having a temperature detection assembly, switch circuitry, and a radio-frequency identification (RFID) module coupled to the switch circuitry. Responsive to the temperature detection assembly being subjected to a temperature exceeding a threshold, the switch circuitry responds to a change in a malleable substance and causes a change in a value output by the RFID module when activated.

No. of Pages : 13 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045789 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CHEMICAL RECYCLING OF SOLVOLYSIS GLYCOL COLUMN BOTTOMS COPRODUCT STREAMS

(51) International classification	:B29B 17/04, B09B 3/00, C10J 3/00, C10G 1/10	(71)Name of Applicant : <b>1)EASTMAN CHEMICAL COMPANY</b> Address of Applicant :200 South Wilcox Drive Kingsport, TN 37660 U.S.A.
(31) Priority Document No	:62/972283	(72)Name of Inventor :
(32) Priority Date	:10/02/2020	<b>1)DEBRUIN, Bruce Roger</b>
(33) Name of priority country	:U.S.A.	<b>2)BITTING, Daryl</b>
(86) International Application No	:PCT/US2021/017342	<b>3)SLIVENSKY, David Eugene</b>
Filing Date	:10/02/2021	<b>4)WU, Xianchun</b>
(87) International Publication No	:WO 2021/163104	<b>5)KEEVER, Travis Wynn</b>
(61) Patent of Addition to Application Number	:NA	<b>6)EKART, Michael Paul</b>
Filing Date	:NA	<b>7)SHUMAN, Jaclyn Erin</b>
(62) Divisional to Application Number	:NA	<b>8)SCHAEFER, Timothy Glenn</b>
Filing Date	:NA	<b>9)MURPHY, Justin William</b>
		<b>10)LANGE, David Milton</b>
		<b>11)EDENS, Aaron Nathaniel</b>

(57) Abstract :

Chemical recycling facilities for processing mixed plastic waste are provided herein. Such facilities have the capability of processing mixed plastic waste streams and utilize a variety of recycling facilities, such as, for example, solvolysis facility, a pyrolysis facility, a cracker facility, a partial oxidation gasification facility, an energy generation/energy production facility, and a solidification facility. Streams from one or more of these individual facilities may be used as feed to one or more of the other facilities, thereby maximizing recovery of valuable chemical components and minimizing unusable waste streams.

No. of Pages : 186 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045792 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : TILT INDICATOR

(51) International classification :G08B 21/18, G08B  
21/02, G06K 19/07  
(31) Priority Document No :62/960898  
(32) Priority Date :14/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/013447  
Filing Date :14/01/2021  
(87) International Publication No :WO 2021/146429  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SHOCKWATCH, INC.**  
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(72)Name of Inventor :  
**1)FONK, Anthony, N.**  
**2)VAN NIEKERK, Johannes**

(57) Abstract :

A tilt indicator includes a housing having a tilt detection assembly, switch circuitry, and a radio-frequency identification (RFID) module coupled to the switch circuitry. Responsive to the tilt detection assembly being subjected to a tilt event exceeding a threshold, the switch circuitry causes a change in a value output by the RFID module when activated.

No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045796 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MELTING VITRIFIABLE MATERIAL WITH A BIOMASS-TYPE FUEL

(51) International classification	:C03C 1/00, C03B 3/00, C03B 5/235
(31) Priority Document No	:FR2000360
(32) Priority Date	:15/01/2020
(33) Name of priority country	:France
(86) International Application No	:PCT/FR2021/050061
Filing Date	:14/01/2021
(87) International Publication No	:WO 2021/144536
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**  
**1)SAINT-GOBAIN ISOVER**  
Address of Applicant :Tour Saint-Gobain 12 Place de l'Iris  
92400 COURBEVOIE France  
(72)**Name of Inventor :**  
**1)GUILLET, Antoine**  
**2)VLAD, Alexandru**

(57) Abstract :

The invention relates to a mixture of biomass and vitrifiable raw material for introducing a vitrifiable mineral material such as glass or rock or a silicate into a combustion melting furnace. The biomass is in particular an oleaginous biomass, the use of which reduces damage to the metering and transport equipment of the vitrifiable raw material.

No. of Pages : 8 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217045799 A

(19) INDIA

(22) Date of filing of Application :10/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : RESOURCE SELECTION METHOD AND TERMINAL DEVICE

(51) International classification :H04B 17/382, H04W  
4/40, H04W 72/04  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/074546  
Filing Date :07/02/2020  
(87) International Publication No :WO 2021/155599  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Dongguan, Guangdong 523860 China  
(72)Name of Inventor :  
**1)ZHAO, Zhenshan  
2)LIN, Huei-Ming  
3)DING, Yi**

(57) Abstract :

Disclosed are a resource selection method, a terminal device, a chip, a computer-readable storage medium, a computer program product and a computer program. The method comprises: a first terminal device performing resource selection at moment n, and the first terminal device determining, according to an interception result, a transmission resource used for transmitting sidelink data, wherein the interception result comprises at least one of the following: an interception result obtained by the first terminal device performing interception at at least one time unit after the moment n; and an interception result obtained by the first terminal device performing interception at at least one time unit before the moment n.

No. of Pages : 44 No. of Claims : 22

(54) Title of the invention : DISCONNECTION ASSEMBLY FOR TETHERED ELECTRIC VEHICLE

(51) International classification	:B60L 50/53, B60L 53/18, H01H 3/02, H01H 27/00, H02J 1/00	(71)Name of Applicant : <b>1)CATERPILLAR SARL</b> Address of Applicant :ROUTE DE FRONTENEX 76 1208 GENEVA, SWITZERLAND. Switzerland
(31) Priority Document No	:2001935.2	(72)Name of Inventor :
(32) Priority Date	:12/02/2020	<b>1)RUFFELS, Maxim R.</b>
(33) Name of priority country	:U.K.	<b>2)STRONG, Richard</b>
(86) International Application No	:PCT/EP2021/025037	<b>3)CONWAY, Simon</b>
Filing Date	:29/01/2021	
(87) International Publication No	:WO 2021/160341	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An electric vehicle (2) is supplied with power from a power supply (1) via a cable (10) suspended from an anchor (20). The anchor (20) is attached to a mount (40) on the vehicle and detachable from the mount (40) by tension in the first portion (12) of the cable between the anchor (20) and the power supply (1). A second portion (15) of the cable between the anchor (20) and the vehicle (2) remains slack in the attached position of the anchor (20), and extends on detachment of the anchor to relieve tension in the first portion (12) of the cable (10). A disconnection switch (30) is operable by detachment of the anchor (20) to interrupt the power supply from the cable (10) to the vehicle (2).

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044233 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MICROWAVE DISTRIBUTION NETWORK

(51) International classification :H01Q 21/00, H01Q 25/00, H01Q 3/40  
(31) Priority Document No :20382045.1  
(32) Priority Date :24/01/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/ES2021/070053  
Filing Date :25/01/2021  
(87) International Publication No :WO 2021/148708  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

**1)BIURRUN QUEL, Carlos**

**2)DEL RÍO BOCIO, Carlos**

**3)MONTESANO BENITO, Antonio**

(57) Abstract :

Microwave distribution network, comprising a stacking of several layers (4), each of the layers (4) comprising a plurality of unit cells (1), wherein: the unit cells (1) comprise a coaxial input (2) connected to three transmission lines (3) with an angular span of 120°, the coaxial input (2) being oriented on a Z-axis of a Cartesian system of axes in which the three transmission lines (3) are on an XY plane; the layers (4) are configured as a hexagonal lattice formed with the unit cells (1) by periodic replication, with the coaxial inputs (2) placed at the corners of the hexagons, such that each unit cell (1) is connected to three neighbour unit cells, the coaxial inputs (2) of the three neighbour unit cells being oriented on a Z-axis of a Cartesian system of axes in which the three transmission lines (3) are on an XY plane, such that this orientation on the Z-axis is opposite to the orientation of the coaxial input (2) of the former unit cell (1) on the same Z-axis; the distance between coaxial inputs (2) is such that it satisfies  $\frac{1}{4}$  of the wavelength conditions; and the adjacent layers (4) are interconnected by means of the coaxial inputs (2) of the unit cells that are arranged in opposite directions.

No. of Pages : 10 No. of Claims : 9



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044234 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND DEVICES FOR UPDATING IAB-NODE CONFIGURATION INFORMATION DURING INTER-DONOR MIGRATION

(51) International classification :H04W 36/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/078219  
Filing Date :06/03/2020  
(87) International Publication No :WO 2021/098085  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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Address of Applicant :ZTE Plaza, Keji Road South Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China  
(72)Name of Inventor :  
**1)CAO, Kun**  
**2)HUANG, Ying**  
**3)CHEN, Lin**

(57) Abstract :

The present disclosure describes methods, systems, and devices for updating configuration information for a migrating integrated access backhaul node (IAB-node) during an inter-donor migration from a source IAB-donor to a target IAB-donor. One method includes providing, by a target IAB-donor central unit (CU), configuration information for a migrating IAB-node distributed unit (DU) in a dedicated radio resource control (RRC) message during handover preparation. The method further includes sending, by the target IAB-donor CU, a XnAP message to a source IAB-donor CU, the XnAP message comprising the configuration information as an RRC transparent container, and then the source IAB-donor CU sends the dedicated RRC message to a migrating IAB-node mobile termination (MT), the dedicated RRC message comprising the configuration information.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044239 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPOSITIONS HAVING THIOREDOXIN ACTIVITY AND RELATED METHODS

(51) International classification :A61P 11/12, A61P  
31/04, C12N 9/00  
(31) Priority Document No :62/956994  
(32) Priority Date :03/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012109  
Filing Date :04/01/2021  
(87) International Publication No :WO 2021/138682  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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**2)HEIFETZ, Peter B.**  
**3)MOSKOWITZ, Haim**  
(72)Name of Inventor :  
**1)HEIFETZ, Peter B.**  
**2)MOSKOWITZ, Haim**

(57) Abstract :

Disclosed are preparations, formulations and uses of a protein or peptide having thioredoxin action when in a reduced state for treating diseases and/or conditions. One aspect of the invention is a method to decrease viscoelasticity of mucus or sputum in a patient that has excessively viscous or cohesive mucus or sputum. The method includes contacting the mucus or sputum of the patient with a composition comprising a protein or peptide comprising a thioredoxin monocysteine active site in a reduced state, where the protein or peptide does not contain any cysteine residues except for a single Cys at the N-terminal position of the thioredoxin monocysteine active site.

No. of Pages : 84 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044242 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MAC CE FOR CONFIGURAING PATHLOSS REFERENCE SIGNAL FOR PUSCH

(51) International classification :H04W 52/08, H04W 72/04, H04W 52/24  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/070237  
Filing Date :03/01/2020  
(87) International Publication No :WO 2021/134779  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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Address of Applicant :6 Shangdi West Road, Haidian District  
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(72)Name of Inventor :  
**1)LIU, Bingchao**  
**2)ZHU, Chenxi**  
**3)WU, Lianhai**  
**4)LING, Wei**  
**5)ZHANG, Yi**

(57) Abstract :

Methods and apparatuses for configuring PUSCH pathloss reference signal for SRI PUSCH power control are disclosed. A method comprises configuring PUSCH pathloss reference signal for one or more SRI PUSCH power controls by using a MAC CE, and transmitting a PDSCH carrying the MAC CE.

No. of Pages : 16 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044278 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR AUTOMATICALLY GRADING PRE-OWNED ELECTRONIC DEVICES

(51) International classification :G06Q 30/02, G06F 7/00, G06F 7/04, G06Q 10/00, G06Q 30/00  
(31) Priority Document No :62/957795  
(32) Priority Date :06/01/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/012338  
Filing Date :06/01/2021  
(87) International Publication No :WO 2021/142009  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ASSURANT, INC.**  
Address of Applicant :28 Liberty Street New York, New York 10005 U.S.A.  
(72)Name of Inventor :  
**1)JOHNSON, Brandon, P.**  
**2)HERALD, Roscoe, R.**  
**3)HANKS, Harrison, A.**  
**4)FARLEY, Carson**

(57) Abstract :

Systems and methods for automatically grading a user device are provided. Such systems and methods can include (1) a lighting element positioned at an angle relative to a platform, (2) an imaging device positioned at the angle relative to the platform such that light emitted from the lighting element and a field of view of the imaging device form a right angle where the light emitted from the lighting element and the field of view meet at a user device when the user device is positioned at a predetermined location on the platform, and (3) control circuitry that can activate the lighting element, instruct the imaging device to capture an image of a screen of the user device while the user device is at the predetermined location and is being illuminated by the first lighting element, and parse the image to determine whether the screen is damaged.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043878 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR PREPARING SYNTHESIS GAS

(51) International classification :C01B 3/34, C01B  
3/36, C10G 9/02  
(31) Priority Document No :10-2021-0013204  
(32) Priority Date :29/01/2021  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2021/018397  
Filing Date :06/12/2021  
(87) International Publication No :WO 2022/164006  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)LG CHEM, LTD.**

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(72)Name of Inventor :

**1)HWANG, Sung June**

**2)KIM, Tae Woo**

**3)KI, Sik**

**4)LEE, Sung Kyu**

(57) Abstract :

The present invention relates to a method for preparing syngas. More particularly, the present invention provides a method for preparing syngas, comprising the steps of: preparing a mixed oil stream by mixing a pyrolysis fuel oil (PFO) stream containing PFO discharged from a naphtha cracking process (NCC) and a pyrolysis gas oil (PGO) stream containing PGO (S10); and supplying the mixed oil stream to a combustion chamber for a gasification process (S20), wherein the ratio of the flow rate of the PGO stream in the mixed oil stream to the flow rate of the mixed oil stream is 0.01 to 0.3.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217043881 A

(19) INDIA

(22) Date of filing of Application :01/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : PUPIL EXPANDER WITH IMPROVED COLOR UNIFORMITY

(51) International classification :G02B 27/01  
(31) Priority Document No :16/799499  
(32) Priority Date :24/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/014051  
Filing Date :20/01/2021  
(87) International Publication No :WO 2021/173253  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)TERVO, Jani, Kari, Tapio**  
**2)TERVONEN, Ari, Juhani**  
**3)HYVARINEN, Heikki, Juhana**

(57) Abstract :

An optical waveguide comprises one or more upstream diffraction gratings in addition to overlapping first and second downstream diffraction gratings. The one or more upstream diffraction gratings include a first upstream diffraction grating configured to receive display light and to release the display light expanded along a first axis. The first and second downstream diffraction gratings are configured to receive the display light expanded along the first axis and to cooperatively release the display light further expanded along a second axis. The first downstream diffraction grating is arranged on a planar face of the optical waveguide and is further configured to further expand along the first axis the display light expanded along the first axis.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046153 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : RAN NODE, UE, AND METHOD FOR SAME

(51) International classification	:H04W 72/04, H04W 74/08	(71)Name of Applicant :
(31) Priority Document No	:2020-022376	<b>1)NEC CORPORATION</b>
(32) Priority Date	:13/02/2020	Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo
(33) Name of priority country	:Japan	1088001 Japan
(86) International Application No	:PCT/JP2020/044537	(72)Name of Inventor :
Filing Date	:30/11/2020	<b>1)FUTAKI Hisashi</b>
(87) International Publication No	:WO 2021/161622	<b>2)HAYASHI Sadafuku</b>
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This RAN node (1) broadcasts a first initial bandwidth part (BWP) configuration via system information, and broadcasts a second initial BWP configuration via system information or transmits the second initial BWP configuration via signalling of an individual UE. The first initial BWP configuration includes cell-specific common parameters of the first initial BWP of a cell, and the second initial BWP configuration includes cell-specific common parameters of the second initial BWP of the cell. The second initial BWP is not used by first-type UEs, but is used by second-type UEs. The bandwidth of the second initial BWP is equal to or narrower than that of the first initial BWP. This enables the second-type UEs, which have limited capability compared to the first-type UEs, to use an initial BWP suitable for the capability.

No. of Pages : 58 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217046192 A

(19) INDIA

(22) Date of filing of Application :12/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : LUGGAGE COMPRISING A MOTORIZED OPENING PANEL

(51) International classification	:A45C 5/03, A45C 13/00	(71)Name of Applicant :
(31) Priority Document No	:FR2001432	<b>1)PA.COTTE SA</b>
(32) Priority Date	:13/02/2020	Address of Applicant :Avenue C.-F.-Ramuz 80 1009 PULLY
(33) Name of priority country	:France	Switzerland
(86) International Application No	:PCT/EP2021/053102	(72)Name of Inventor :
Filing Date	:09/02/2021	<b>1)COTTE, Pierre-Alain</b>
(87) International Publication No	:WO 2021/160619	<b>2)POREZ, Mathieu</b>
(61) Patent of Addition to Application	:NA	<b>3)FOUQUET, Fabien</b>
Number	:NA	<b>4)FERRE, Victorien</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a luggage comprising: - a casing (20) forming a frame (2); - a lid (10) forming an opening panel (1) that is movable relative to the frame (2) between a closed position, in which it is folded down on the frame (2), and at least one open position; - at least one electric motor (40) which drives the opening and the closing of the opening panel (1).

No. of Pages : 13 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217049123 A

(19) INDIA

(22) Date of filing of Application :29/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : INFORMATION REPORTING METHOD AND APPARATUS, INFORMATION RECEIVING METHOD AND APPARATUS, TERMINAL, AND NETWORK SIDE DEVICE

(51) International classification :H04W 74/08, H04W 74/00  
(31) Priority Document No :202010082243.X  
(32) Priority Date :07/02/2020  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2021/073117  
Filing Date :21/01/2021  
(87) International Publication No :WO 2021/155743  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)CHINA MOBILE COMMUNICATIONS GROUP CO., LTD.**

(72)Name of Inventor :

**1)XIE, Fang**

**2)LIU, Guangyi**

(57) Abstract :

The present invention provides an information reporting method and apparatus, an information receiving method and apparatus, a terminal, and a network side device. The method comprises: determining the related information of a random access initiated by a terminal; and reporting the related information of the random access to a network side device.

No. of Pages : 32 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007916 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : REMOVAL OF UNWANTED MINERAL OIL HYDROCARBONS

(51) International classification :A23L 5/20, C11B  
3/12  
(31) Priority Document No :20190409.1  
(32) Priority Date :11/08/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/US2021/043472  
Filing Date :28/07/2021  
(87) International Publication No :WO 2022/035594  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)VAN ROSSUM, Gijsbertus Johannes**

(57) Abstract :

Present invention relates to process for reducing content of MOSH and/or MOAH from vegetable oil selected from group consisting of palm-based oil, cocoa butter-based oil and any mixture thereof, wherein process is comprising step of subjecting vegetable oil to short-path evaporation, wherein short-path evaporation is performed at pressure of below 1 mbar and further processing conditions either: a1) at evaporator temperature of between 210 and 240°C, and with a feed rate per unit area of evaporator surface of the shorth-path evaporation equipment of from 35 to 105 kg/h.m<sup>2</sup>, or a2) at evaporator temperature of from 245 to 300°C, and feed rate per unit area of evaporator surface in range of from 110 and 170 kg/h.m<sup>2</sup>, and thus obtaining a retentate vegetable oil and a distillate. Present invention further relates to use of short-path evaporation for reducing content of MOSH and/or MOAH from vegetable oil.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217067078 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS FOR THE CONTINUOUS POLYMERIZATION OF PHOSPHATE COMPOUNDS TO FORM POLYPHOSPHATE COMPOSITIONS

(51) International classification :C01B 25/40, C01B 25/42, C01B 25/45, C07F 9/22, C09K 21/00  
(31) Priority Document No :63/014740  
(32) Priority Date :24/04/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/021317  
Filing Date :08/03/2021  
(87) International Publication No :WO 2021/216206  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :

**1)LIU, Yue**

**2)ISAROV, Aleksey**

**3)HELMS, Robin Brumby**

**4)BOURGEOIS, Yann Charlotte**

**5)THOMAS, James Scott**

**6)DUCK, Christopher Lamar**

**7)FARRELL, Patrick Christopher**

(57) Abstract :

Polyphosphate compositions are produced by a process that includes the steps of continuously introducing a phosphate compound into a polymerization vessel, polymerizing the phosphate compound at a temperature of 250-450 °C for a time period sufficient to form the polyphosphate composition, and continuously discharging the polyphosphate composition from the polymerization vessel. The phosphate compound can be fed to the polymerization vessel in the form of an aqueous slurry containing 5- 50 wt. % of the phosphate compound. Resulting polyphosphate compositions often contain at least 8 wt. % of a polyphosphate and less than 35 wt. % of the phosphate compound.

No. of Pages : 26 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217067079 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : ADHESIVE, LAMINATE, AND PACKAGING MATERIAL

(51) International classification	:C09J 175/06, B32B 7/12, B32B 15/088, B32B 27/00, B32B 27/40	(71)Name of Applicant : <b>1)DIC CORPORATION</b> Address of Applicant :35-58, Sakashita 3-chome, Itabashi-ku, Tokyo 1748520 Japan
(31) Priority Document No	:2020-103643	(72)Name of Inventor :
(32) Priority Date	:16/06/2020	<b>1)EBATO Hiroshi</b>
(33) Name of priority country	:Japan	<b>2)HAMASUNA Yutaka</b>
(86) International Application No	:PCT/JP2021/021117	<b>3)MIHARA Takashi</b>
Filing Date	:03/06/2021	
(87) International Publication No	:WO 2021/256269	
(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 laminating adhesive, a laminate, and a packaging material which are excellent in terms of retorting resistance and resistance to the contents. The adhesive comprises a polyol composition (A) including a polyester polyol (A1), and a polyisocyanate composition (B) including a polyisocyanate compound (B1), wherein the polyester polyol (A1) is a product of reaction of a composition comprising one or more polycarboxylic acids and a polyhydric alcohol, the polycarboxylic acids including a tetramer acid. The laminate and the packaging material are produced using the adhesive.

No. of Pages : 37 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007877 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : PAGING MANAGEMENT

(51) International classification :H04W 68/00, H04W 76/12  
(31) Priority Document No :63/060546  
(32) Priority Date :03/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2021/057123  
Filing Date :03/08/2021  
(87) International Publication No :WO 2022/029637  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)VELEV, Genadi**  
**3)BASU MALLICK, Prateek**  
**4)LOEHR, Joachim**  
**5)CHOI, Hyung-Nam**

(57) Abstract :

Apparatuses, methods, and systems are disclosed for paging management. An apparatus includes a transceiver (325) that receives, at a user equipment (UE) device, a paging message from a mobile wireless communication network, the paging message comprising at least one condition to be met by the UE device, and a processor (305) that checks that the at least one condition to be met is fulfilled, wherein the transceiver sends a paging message response comprising an indication of the check if the at least one condition to be met is fulfilled.

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007881 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND APPARATUS FOR PAGING TRANSMISSION AND RECEPTION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04W 68/02, H04W 68/00, H04W 72/12, H04W 72/04, H04B 7/08  
(31) Priority Document No :10-2020-0087121  
(32) Priority Date :14/07/2020  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2021/007568  
Filing Date :16/06/2021  
(87) International Publication No :WO 2022/014878  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)KIM, Taehyoung**

**3)NOH, Hoondong**

**4)JI, Hyoungju**

**5)PARK, Jinhyun**

**6)JANG, Youngrok**

(57) Abstract :

The present disclosure relates to a 5th generation (5G) or pre-5G communication system for supporting a higher data transmission rate than that of a beyond-4th generation (4G) communication system such as long-term evolution (LTE). A method for performing paging by a terminal in a wireless communication system according to various embodiments of the present disclosure comprises the steps of: receiving, from a base station, configuration information including at least one of information regarding a control resource set related to a PDCCH for the paging and information regarding a search space; identifying a synchronization signal block (SSB) corresponding to a PDCCH monitoring opportunity in a control resource set and a search space, which have been configured on the basis of the configuration information; and performing PDCCH monitoring for the paging by using the same reception beam as a reception beam used when receiving the synchronization signal block (SSB), and receiving a paging message through a PDSCH scheduled through the PDCCH.

No. of Pages : 95 No. of Claims : 14

(54) Title of the invention : CAMERA MODULE AND ELECTRONIC DEVICE COMPRISING SAME

(51) International classification :H04N 5/232, H04N 5/225  
(31) Priority Document No :10-2020-0096404  
(32) Priority Date :31/07/2020  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2021/010006  
Filing Date :30/07/2021  
(87) International Publication No :WO 2022/025719  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
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**1)RHO, Hyungjin**  
**2)KANG, Byungkwon**  
**3)YU, Hyunho**

(57) Abstract :

An electronic device is disclosed. The electronic device comprises: a fixed part including a housing and a camera module which is at least partially arranged in the housing, wherein the camera module includes a camera housing fixedly arranged in the electronic device; a moving part including a lens and an image sensor, wherein the moving part is at least partially accommodated in the camera housing so as to move relative to the fixed part; a driving member for moving the moving part, wherein the driving member includes a first driving member arranged in the camera housing and a second driving member arranged in the moving part and being configured to electromagnetically interact with the first driving member; and a support structure configured to support the movement of the moving part, and including a ball which is rotatably coupled to one of the moving part and the camera housing and is arranged to be in contact with the other, wherein the moving part can be configured such that a first distance from an optical axis of the lens to the second driving member is less than a second distance from the optical axis of the lens to the ball. Various other embodiments identified through the specification are possible.

No. of Pages : 87 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007884 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : INDEPENDENT FRONT PLATFORM FOR AGRICULTURAL MACHINES AND AGRICULTURAL HARVESTER

(51) International classification	:A01D 45/10, A01D 33/14, A01D 57/22, A01D 34/24
(31) Priority Document No	:102020015139-8
(32) Priority Date	:24/07/2020
(33) Name of priority country	:Brazil
(86) International Application No	:PCT/BR2021/050310
Filing Date	:22/07/2021
(87) International Publication No	:WO 2022/016249
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**2)DOS SANTOS, Alan Patrick**

**3)SHANE, Nicholas Stephen**

**4)CLEODOLPHI, Daenio**

(57) Abstract :

The present invention relates to a novel independent front platform for being coupled to an agricultural machine, such as machines for harvesting tall, stemmed plants and cane and sorghum harvesters, developed to provide more precise and appropriate cutting and thus increase harvest productivity. More particularly, the independent front platform to which the present invention relates comprises at least one base cutter assembly (42) mounted floating in relation to the structural frame (101) through the arrangement of at least one pantographic arm (105) and the at least one actuator (106).

No. of Pages : 18 No. of Claims : 12



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007885 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : HARVESTING SYSTEM BASED ON A PLATFORM FOR AGRICULTURAL HARVESTERS, AND PLATFORM FOR AGRICULTURAL HARVESTERS

(51) International classification :A01D 45/10, A01D 33/14, A01D 57/22, A01D 34/24  
(31) Priority Document No :102020015140-1  
(32) Priority Date :24/07/2020  
(33) Name of priority country :Brazil  
(86) International Application No :PCT/BR2021/050311  
Filing Date :22/07/2021  
(87) International Publication No :WO 2022/016250  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)BENTO, Alysson Renato**

**3)DA SILVA, Marcio Rodrigues**

(57) Abstract :

One aspect of the present subject matter relates to a harvesting system based on a platform for agricultural harvesters that includes a platform configured to be removably coupled to a front end of a harvester. The platform includes a platform frame and a base cutter assembly coupled to the platform frame in a floating arrangement. In addition, the system includes an actuator coupled between the platform frame and the base cutter assembly, and a hydraulic circuit in fluid communication with the actuator. The hydraulic circuit is configured to allow the pressurized hydraulic fluid to feed the actuator in order to control the floating movement of the base cutter assembly in relation to the platform frame.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007910 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR SETTING A TORQUE CAPACITY OF AN AUTOMATED CLUTCH IN A MOTOR VEHICLE WITH A DRIVE UNIT

(51) International classification :F16D 48/06  
(31) Priority Document No :10 2020 120 856.1  
(32) Priority Date :07/08/2020  
(33) Name of priority country :Germany  
(86) International Application No :PCT/DE2021/100559  
Filing Date :01/07/2021  
(87) International Publication No :WO 2022/028640  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)COLAK, Berker**  
**3)CUI, Bin**  
**4)LI, Xiyi**  
**5)OSER, Johannes**

(57) Abstract :

Described is a method (200) for setting a torque capacity of an automated clutch (106) in a motor vehicle with a drive unit (102, 104), wherein a torque capacity value is determined based on a torque of the drive (102, 104) and the clutch (106) is set such that the clutch (106) has the determined torque capacity value; further described are a computer program product and a clutch system (124).

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007911 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : PARKING FACILITY FOR MOTOR VEHICLES

(51) International classification :B60L 53/00, E04H 6/22, E04H 6/34  
(31) Priority Document No :10 2020 118 417.4  
(32) Priority Date :13/07/2020  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2021/067339  
Filing Date :24/06/2021  
(87) International Publication No :WO 2022/012898  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)ZANGERLE, Andreas**

(57) Abstract :

The invention relates to a parking facility for motor vehicles, comprising a carrier device (14) having parking spaces (22) for the motor vehicles (12), wherein parking spaces (22) are arranged in at least one level of the parking facility (10; 100), reception devices (28) for the motor vehicles (12), which are able to be moved into a parking position in the parking space and out thereof in at least one movement direction (24, 40) relative to a respective parking space (22), parking space-side contact elements (68) arranged on at least some parking spaces (22) and to which electrical energy is able to be supplied, corresponding device-side contact elements (42) arranged on at least some reception devices (28) and a connection element (44), electrically coupled to said device-side contact elements, for connection to a motor vehicle (12) positioned on the reception device (28), wherein the parking space-side contact elements (68) are arranged movably on the carrier device (14) and/or the device-side contact elements (42) are arranged movably on the reception device (28) and the contact elements (42, 68) are designed to be moved from an initial position, in the absence of the reception device (28) in the parking space (22), into a contact position when the reception device (28) is in the parking position, in which contact position the corresponding contact elements (42, 68) are electrically coupled to one another, and to be brought out of contact from the contact position, and wherein the reception device (28) is able to be moved out of the parking space (22) in the at least one movement direction (24, 40).

No. of Pages : 27 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044285 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : REPORTING UPLINK LISTEN-BEFORE-TALK FAILURE

(51) International classification :H04W 72/04  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/074904  
Filing Date :12/02/2020  
(87) International Publication No :WO 2021/159319  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**4)XU, Fangli**  
**5)HU, Haijing**  
**6)ZHANG, Yushu**  
**7)WU, Zhibin**

(57) Abstract :

The exemplary embodiments relate to a user equipment (UE) delivering an indication of one or more uplink listen-before-talk (LBT) failures to a network. The UE may identify a predetermined condition corresponding to one or more uplink listen-before-talk (LBT) failures associated with a special cell (SpCell). The UE is triggered to provide an indication of uplink LBT failure associated with the SpCell to the network based on the predetermined condition. Next, the UE may determine a type of message that is to be used to deliver the indication of uplink LBT failure associated with the SpCell to the network. The UE may transmit the type of message including the indication of uplink LBT failure associated with the SpCell to the network. Subsequently, the UE may determine that the network received the indication of uplink LBT failure associated with the SpCell.

No. of Pages : 27 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217044286 A

(19) INDIA

(22) Date of filing of Application :02/08/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CATALYST REACTOR EQUIPPED WITH ASH DEPOSITION PREVENTION FUNCTION

(51) International classification :B01D 53/88, B01D 53/86  
(31) Priority Document No :2020-019200  
(32) Priority Date :06/02/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/004299  
Filing Date :05/02/2021  
(87) International Publication No :WO 2021/157690  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)TERADO Shoki**

**4)URABE Yu**

(57) Abstract :

This catalyst reactor has a reactor duct, at least two beams horizontally stretched in the reactor duct, catalyst blocks obtained by incorporating catalyst units into frame-shaped cases, a first diversion member, and a second diversion member. A plurality of catalyst blocks are suspended between two beams and supported by the two beams, and are arranged side by side in the reactor duct such that front surfaces and rear surfaces of the frame-shaped cases are opposite to and adjacent to each other and right side surfaces and left side surfaces of the frame-shaped cases are opposite to and adjacent to each other. The frame-shaped cases each have: a stopper member that is mounted to an upper part of the front surface and/or the rear surface; and a spacer member that is mounted to the right side surface and/or the left side surface. The first diversion member is mounted from above to close a gap between the front surfaces and the rear surfaces of the adjacent catalyst blocks. The second diversion member is mounted from above to close a gap between the right side surfaces and the left side surfaces of the adjacent catalyst blocks.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202217070464 A

(19) INDIA

(22) Date of filing of Application :06/12/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : BIOLOGICALLY-DERIVED CARBON BLACK ALTERNATIVE AND METHOD OF MAKING THE SAME

(51) International classification :C08K 3/04, C09C  
1/52, C01B 32/15  
(31) Priority Document No :63/021494  
(32) Priority Date :07/05/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/031431  
Filing Date :07/05/2021  
(87) International Publication No :WO 2021/226552  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**4)ALBERS, Stevan**  
**5)KIM, Kangmin**

(57) Abstract :

Disclosed is a method for producing a carbon black pigment from a microbial biomass. In certain aspects, the method involves providing a microbial biomass solution with a plurality microbial cells in an aqueous solvent; nucleating the plurality of microbial cells by adding a first soluble ion to the microbial biomass solution; initiating crystal formation in and/or on the plurality of microbial cells by adding a second soluble ion to the microbial biomass solution, forming a plurality of crystal encrusted microbial cells, where the charge of the first soluble ion is the opposite of the charge of the second soluble ion and where the crystals are formed from precipitation of the first and second ions; and performing thermal processing of the plurality of crystal encrusted microbial cells to form a charred biomass; washing the charred biomass to form a microbechar.

No. of Pages : 27 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008458 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM

(51) International classification :G01N 33/50, G01N 33/68  
(31) Priority Document No :2010620.9  
(32) Priority Date :10/07/2020  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2021/069138  
Filing Date :09/07/2021  
(87) International Publication No :WO 2022/008712  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
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**5)WISCHIK, Claude, Michel**

(57) Abstract :

The present invention provides a system for the study of tau protein aggregation in neuronal cells in vitro which can be used to screen agents for therapeutic effectiveness against aggregates of tau protein or fragments thereof.

No. of Pages : 41 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008459 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR PROCESSING PRODUCED OILFIELD BRINE

(51) International classification :E21B 43/24, E21B  
43/12, E21B 43/14  
(31) Priority Document No :63/060500  
(32) Priority Date :03/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/044269  
Filing Date :03/08/2021  
(87) International Publication No :WO 2022/031649  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :

**1)WILLBERG, Dean**

(57) Abstract :

Systems and methods presented herein relate to processing produced oilfield brine by deconstructing it into two useful components: (1) desalinated water and (2) a suspension of solid state salt (e.g., crystallized salt) slurried in a salt saturated brine, which may be formulated and injected into hydrocarbon producing formations above hydraulic fracturing pressure to intentionally create regions of localized high stress within the respective formations. In addition, systems and methods presented herein relate to processing oilfield brine received from hydrocarbon producing wells by : (1) coupling high pressure desalination technologies with saltwater disposal (SWD) operations, (2) active management of SWD water composition at the rock face through dual stream (e.g., split stream) injection, and /or (3) coupled SWD injection, flow assurance, and stimulation to minimize SWD formation damage and injection pressures.

No. of Pages : 61 No. of Claims : 10



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008655 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : PHARMACEUTICAL FORMULATION

(51) International classification	:A61K 9/08, A61K 47/02, A61K 31/4439, A61P 1/00, A61P 1/04	(71)Name of Applicant : <b>1)ALKALOID AD SKOPJE</b> Address of Applicant :Blvd. Aleksandar Makedonski 12 1000 Skopje The former Yugoslav Republic of Macedonia
(31) Priority Document No	:1906473.2	(72)Name of Inventor :
(32) Priority Date	:08/05/2019	<b>1)KRSTESKA, Ljiljana</b>
(33) Name of priority country	:U.K.	<b>2)KAZANDZIEVSKA, Elena</b>
(86) International Application No	:PCT/EP2020/060869	<b>3)WILLIS, Andrew</b>
Filing Date	:17/04/2020	
(87) International Publication No	:WO 2020/224936	
(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 novel two-component formulation of an active ingredient, especially a proton pump inhibitor. The two component formulation is stable for extended periods on storage, and the components are combined to give a formulation that is suitable for oral administration, having good palatability and efficacy.

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008656 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS OF PROVIDING MODULATORS OF TAU AGGREGATION

(51) International classification :G16C 20/50  
(31) Priority Document No :2010679.5  
(32) Priority Date :10/07/2020  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2021/068718  
Filing Date :06/07/2021  
(87) International Publication No :WO 2022/008545  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)MAZANETZ, Michael Philip**  
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**3)SERPELL, Louise Charlotte**  
**4)STOREY, John Mervyn David**

(57) Abstract :

The present invention relates generally to methods for selecting or designing a compound for modulating the aggregation of a Tau protein. The method comprising using computer- implemented molecular modelling means to compare the three-dimensional structure of a candidate compound with a three-dimensional structure of at least a part of the Tau protein comprising amino acids 315-378 and determine whether the candidate compound is able to simultaneously form non-covalent interactions with two or more of Leu315, Ser341, Glu342, Lys343, Phe346, Lys347, Val350, Ser352, Ile354, Lys369, Ile371, Glu372, Phe378 and Thr373. A candidate compound that is able to form said interactions is predicted to modulate the aggregation of the Tau protein or truncated form thereof. Methods using a three- dimensional structural model of at least a part of the Tau protein comprising amino acids 315-378, wherein the model is an intermediate in the aggregation process of the part of the Tau protein with a paired helical filament (PHF) are also described, as are computing systems and products.

No. of Pages : 97 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008657 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPOSITIONS AND METHODS RELATED TO EBOLA VIRUSVACCINES

(51) International classification :A61K 39/12, C07K 14/005, C07K 14/08  
(31) Priority Document No :63/063530  
(32) Priority Date :10/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/045178  
Filing Date :09/08/2021  
(87) International Publication No :WO 2022/035739  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)ZHU, Jiang**  
**3)CHAUDHARY, Anshul**  
**4)WILSON, Ian**

(57) Abstract :

The present invention provides novel engineered Ebolavirus GP proteins and polypeptides, as well as scaffolded vaccine compositions that display the engineered proteins. The invention also provides methods of using such engineered Ebolavirus GP proteins and vaccine compositions in various therapeutic applications, e.g., for preventing or treating Ebolavirus infections.

No. of Pages : 64 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008665 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR PREVENTING OR TREATING ALZHEIMER'S AND OTHER NEURODEGENERATIVE DISEASES

(51) International classification :A61N 1/40  
(31) Priority Document No :16/984486  
(32) Priority Date :04/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/036128  
Filing Date :07/06/2021  
(87) International Publication No :WO 2022/031362  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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Address of Applicant :10580 Wilshire Blvd. #88 Los Angeles, California 90024 U.S.A.  
(72)Name of Inventor :  
**1)LUTTRULL, Jeffrey K.**  
**2)CHANG, David B.**

(57) Abstract :

A protective therapy system for biological tissues or fluids includes applying a pulsed energy source to a target tissue or a target fluid having a chronic progressive disease or a risk of having a chronic progressive disease to therapeutically or prophylactically treat the target tissue or target fluid. A pulsed energy source having selected energy parameters may be applied to a brain of an individual who has Alzheimer's or other neurodegenerative disease or is at risk of developing such a neurodegenerative disease so as to prevent or treat the neurodegenerative disease.

No. of Pages : 105 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008676 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : FORMULATIONS OF 19-NOR C3,3- DISUBSTITUTED C21-N-PYRAZOLYL STEROID AND METHODS OF USE THEREOF

(51) International classification :A61K 9/16, A61K 9/20, A61K 31/573, A61K 31/58, A61P 25/00

(31) Priority Document No :63/054070

(32) Priority Date :20/07/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/042394  
Filing Date :20/07/2021

(87) International Publication No :WO 2022/020363

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

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

(71)Name of Applicant :

**1)SAGE THERAPEUTICS, INC.**

Address of Applicant :215 First Street Cambridge, MA 02142 U.S.A.

(72)Name of Inventor :

**1)WATSON, Paul, Steven**

**2)BERNER, Bret**

**3)NARAYAN, Padma**

**4)CHEN, Xiaoxia**

**5)STUTZMAN, Todd, Anthony**

**6)MENG, Jianing**

**7)WILKERSON, Carolyn**

**8)JAIN, Raj, Ramnik**

(57) Abstract :

This invention relates to a 19-nor C3,3-disubstituted C21-pyrazolyl steroid of formula (I) and pharmaceutical compositions thereof. Also disclosed herein are methods of making the pharmaceutical compositions of the 19-nor C3,3-disubstituted C21-pyrazolyl steroid of formula (I) and methods of using the 19-nor C3,3-disubstituted C21-pyrazolyl steroid of formula (I) or crystalline solid forms, pharmaceutically acceptable salts, and pharmaceutically acceptable compositions thereof.

No. of Pages : 160 No. of Claims : 142

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008677 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : BATTERY MODULE AND BATTERY PACK COMPRISING SAME

(51) International classification	:H01M 50/24, H01M 50/20	(71)Name of Applicant :
(31) Priority Document No	:10-2020-0137479	<b>1)LG ENERGY SOLUTION, LTD.</b>
(32) Priority Date	:22/10/2020	Address of Applicant :Tower 1, 108, Yeoui-daero,
(33) Name of priority country	:Republic of Korea	Yeongdeungpo-gu, Seoul 07335 Republic of Korea
(86) International Application No	:PCT/KR2021/013263	(72)Name of Inventor :
Filing Date	:28/09/2021	<b>1)LEE, Junghoon</b>
(87) International Publication No	:WO 2022/085969	<b>2)SEONG, Junyeob</b>
(61) Patent of Addition to Application Number	:NA	<b>3)JUNG, Hyemi</b>
Filing Date	:NA	<b>4)KIM, Kwangmo</b>
(62) Divisional to Application Number	:NA	<b>5)BYOUN, Dayoung</b>
Filing Date	:NA	

(57) Abstract :

The battery module according to one embodiment of the present invention comprises a battery cell stack formed by stacking a plurality of battery cells, and barrier layers interposed between neighboring battery cells from among the plurality of battery cells, wherein the thickness of the barrier layers are different in accordance with the location thereof.

No. of Pages : 13 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008684 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : CHA-TYPE ZEOLITE AND METHOD FOR PRODUCING SAME

(51) International classification :C01B 39/48, B01J 37/02, B01J 37/10, B01D 53/86, B01D 53/94  
(31) Priority Document No :2020-134632  
(32) Priority Date :07/08/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/029284  
Filing Date :06/08/2021  
(87) International Publication No :WO 2022/030617  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)TOSOH CORPORATION**  
Address of Applicant :4560, Kaisei-cho, Shunan-shi, Yamaguchi 7468501 Japan  
(72)Name of Inventor :  
**1)MITSUHASHI Ryo**  
**2)KAWAMOTO Takuya**  
**3)AOYAMA Hidekazu**  
**4)CHEN Ning**

(57) Abstract :

Provided is at least one among: an improvement in the heat resistance of CHA-type zeolite brought about by a method different from methods for improving heat resistance in the prior art; a method for producing CHA-type zeolite having improved heat resistance; and said CHA-type zeolite. Preferably, provided is CHA-type zeolite characterized in that in an <sup>1</sup>H-MAS-NMR spectrum, the ratio of the integrated intensity of a maximum peak having a peak top in a chemical shift of 3.0-3.5 ppm to the integrated intensity of a maximum peak having a peak top in a chemical shift of 4.0-4.5 ppm is 0.12-0.5 (exclusive of 0.12), and in an IR spectrum, the ratio of the maximum peak height of an absorption peak having a peak top in a wave number of 3,630 cm<sup>-1</sup> to 3,650 cm<sup>-1</sup> to the maximum peak height of an absorption peak having a peak top in a wave number of 3,590 cm<sup>-1</sup> to 3,610 cm<sup>-1</sup> is 0.40-1.0.

No. of Pages : 64 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008690 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS FOR TREATMENT OF SUBJECTS WITH PSORIATIC ARTHRITIS

(51) International classification :C07K 16/24, A61P  
19/02, A61K 39/00  
(31) Priority Document No :201921015050  
(32) Priority Date :15/04/2019  
(33) Name of priority country :India  
(86) International Application No :PCT/IB2020/053565  
Filing Date :15/04/2020  
(87) International Publication No :WO 2020/212874  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)SUN PHARMACEUTICAL INDUSTRIES LIMITED**  
Address of Applicant :Sun House, Plot No. 201 B/1 Western  
Express Highway Goregaon (E) Uttar Pradesh India  
(72)Name of Inventor :  
**1)GANORKAR, Kirti Wardhaman**  
**2)RAUT, Atul Mathuradas**  
**3)RAGHAVAN, Anil**  
**4)YAO, Siu-Long**

(57) Abstract :

This disclosure relates to an anti-IL-23p19 antibody hum13B8-b or antigen binding fragment thereof and its use in the treatment of psoriatic arthritis.

No. of Pages : 28 No. of Claims : 44



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008695 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SURGICAL INSTRUMENTS WITH DOUBLE SPHERICAL ARTICULATION JOINTS WITH PIVOTABLE LINKS

(51) International classification	:A61B 17/072, A61B 17/29, A61B 17/00	(71)Name of Applicant : <b>1)CILAG GMBH INTERNATIONAL</b> Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland
(31) Priority Document No	:63/057430	(72)Name of Inventor : <b>1)WITTE, Spencer J.</b>
(32) Priority Date	:28/07/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IB2021/056761	
Filing Date	:26/07/2021	
(87) International Publication No	:WO 2022/023949	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Surgical instruments with articulation joints that include an articulation linkage assembly comprising a plurality of links configured to operably interface with a proximal joint member for movable travel relative thereto in a first proximal travel path and a second proximal travel path that are transverse to each other. The plurality of links are further configured to operably interface with a distal joint member for movable travel relative thereto in a first distal travel path and a second distal travel path that are transverse each other.

No. of Pages : 61 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008696 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

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(54) Title of the invention : SURGICAL INSTRUMENTS WITH DOUBLE PIVOT ARTICULATION JOINT ARRANGEMENTS

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(51) International classification :A61B 34/30

(31) Priority Document No :63/057430

(32) Priority Date :28/07/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IB2021/056759

Filing Date :26/07/2021

(87) International Publication No :WO 2022/023947

(61) Patent of Addition to Application

Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

**1)CILAG GMBH INTERNATIONAL**

Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland

(72)Name of Inventor :

**1)WITTE, Spencer J.**

---

(57) Abstract :

Surgical instruments with articulation joints that include a proximal joint member that has a proximal face that defines an arcuate proximal apex and a distal joint member that has a distal face that defines an arcuate distal apex. A first link and a second link are coupled to the proximal joint member and the distal joint member such that they cross each other and the arcuate distal apex confronts the arcuate proximal apex.

No. of Pages : 127 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008697 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF OPERATING A SURGICAL INSTRUMENT

(51) International classification :A61B 17/072  
(31) Priority Document No :63/057430  
(32) Priority Date :28/07/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2021/056742  
Filing Date :26/07/2021  
(87) International Publication No :WO 2022/023934  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)CILAG GMBH INTERNATIONAL**

Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland

(72)Name of Inventor :

**1)BAKOS, Gregory J.**

**2)PARKS, Darryl A.**

**3)DICKERSON, Benjamin D.**

**4)HALL, Steven G.**

**5)SIMMS, Robert J.**

**6)WITTE, Spencer J.**

**7)ARONHALT, Taylor W.**

**8)MOUBARAK, Paul**

**9)RYLE, William C.**

(57) Abstract :

A method of operating an articulatable surgical instrument. The method includes providing a rotary drive motion to a rotary drive member of a surgical end effector and converting the rotary drive motion to an upper axial motion and a lower axial motion at locations that are distal to the articulation joint. The method further includes applying the upper axial motion to an upper portion of a firing member and applying the lower axial motion to a lower portion of the firing member such that the upper axial motion and lower axial motion drives the firing member distally through the surgical end effector from a starting position to an ending position.

No. of Pages : 188 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008698 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : DELIMING COMPOSITION AND METHOD FOR DELIMING HIDES

(51) International classification	:C14C 1/08, C08L 51/02, C08L 51/08, C08L 89/06	(71)Name of Applicant : <b>1)TFL LEDERTECHNIK GMBH</b> Address of Applicant :Peter-Krauseneck-Str. 16 79618 Rheinfelden Germany
(31) Priority Document No	:21153020.9	(72)Name of Inventor :
(32) Priority Date	:22/01/2021	<b>1)RABE, Volker</b>
(33) Name of priority country	:EPO	<b>2)DÖPPERT, Susanne</b>
(86) International Application No	:PCT/EP2022/051284	
Filing Date	:20/01/2022	
(87) International Publication No	:WO 2022/157273	
(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 delimiting composition and a delimiting method using graft polymers from polysaccharides and/or polypeptides or the corresponding derivatives, obtainable by radical polymerization of a monomer, selected at least from, or a monomer mixture of, acrylic acid or methacrylic acid or the mixtures thereof.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008702 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : APPARATUS FOR SUPPLYING OR DISSIPATING HEAT, FOR CARRYING OUT REACTIONS AND FOR MIXING AND DISPERSING FLOWING MEDIA

(51) International classification	:F28F 9/013
(31) Priority Document No	:01018/20
(32) Priority Date	:14/08/2020
(33) Name of priority country	:Switzerland
(86) International Application No	:PCT/CH2021/050018
Filing Date	:11/08/2021
(87) International Publication No	:WO 2022/032401
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)SULZER MANAGEMENT AG**  
Address of Applicant :Neuwiesenstrasse 15 8401 Winterthur  
Switzerland  
(72)Name of Inventor :  
**1)STREIFF, Felix**

(57) Abstract :

The invention relates to an apparatus for supplying and dissipating heat, for carrying out reactions and for mixing and dispersing flowing media in a housing (1) with an internal diameter (D) for a medium (I) and comprising internal fittings made up of a bundle of tubes (2) with an external diameter (d) or made up of other elongate elements oriented preferably parallel to the longitudinal axis of the housing and with crosspieces or crosspiece layers (31, 41) installed in a crosswise state between the elongate elements, wherein the crosspieces are inclined in relation to the longitudinal axis of the housing and are not in contact with one another. Following a number of axially successive crosspieces, or following a length (L), the crosspieces are installed between the tubes in a state in which they have been turned by preferably 90°. A heat-transfer medium (II) can flow in a co-current or counter-current mode in the tubes, and this results in a mixer/heat exchanger or reactor with an extremely large heat-transfer capacity and almost plug flow.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008706 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESSED ARTICLE AND METHOD FOR MANUFACTURING PROCESSED ARTICLE

(51) International classification :B21D 28/02, B21D 22/02, B21D 22/26, B21D 28/00, B21D 28/16  
(31) Priority Document No :2020-137514  
(32) Priority Date :17/08/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/030069  
Filing Date :17/08/2021  
(87) International Publication No :WO 2022/039167  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

**1)NIPPON STEEL CORPORATION**

Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan

(72)Name of Inventor :

**1)NAKAMURA, Naofumi**

**2)OYA, Shinobu**

**3)SASAKI, Hirokazu**

**4)ISSAKA, Hameed**

(57) Abstract :

Provided is a processed article in which a plated steel sheet having a plating layer on the surface thereof is a raw material, and which has a cut end in a hollow tubular side wall thereof. The cut end is flush with the outer surface of the side wall of the processed article and has, in the sheet thickness direction of the cut end, a sheared surface and a fractured surface in this order, or a sheared surface. The ratio  $L/t_1$  of a plating component remaining length  $L$  of the sheared surface covered by the plating layer on the surface to the sheet thickness  $t_1$  of the cut end of the processed article is not less than 0.70.

No. of Pages : 58 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008707 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : HOT-ROLLED STEEL SHEET

(51) International classification	:C22C 38/00, B21B 1/22, C22C 38/58, C21D 8/02, C21D 9/46	(71)Name of Applicant : <b>1)NIPPON STEEL CORPORATION</b> Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan
(31) Priority Document No	:2020-143742	(72)Name of Inventor :
(32) Priority Date	:27/08/2020	<b>1)SHUTO Hiroshi</b>
(33) Name of priority country	:Japan	<b>2)TSUTSUI Kazumasa</b>
(86) International Application No	:PCT/JP2021/022664	<b>3)HAYASHI Koutarou</b>
Filing Date	:15/06/2021	<b>4)SAKAKIBARA Akifumi</b>
(87) International Publication No	:WO 2022/044493	<b>5)ANDO Jun</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SUGIYAMA Toshiki</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This hot-rolled steel sheet has a predetermined chemical compositional makeup, and has a metal structure including, in area%, less than 3.0% of retained austenite, not less than 15.0% but less than 60.0% of ferrite, and less than 5.0% of pearlite. The hot-rolled steel sheet has an E value of not less than 10.7, the value indicating periodicity of the metal structure, an I value of not less than 1.020, the value indicating uniformity of the metal structure, a standard deviation of Mn concentration of not more than 0.60 mass%, and a tensile strength of not less than 980 MPa.

No. of Pages : 54 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008709 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : HOT-ROLLED STEEL SHEET

(51) International classification :C21D 38/58, C21D 8/02, C21D 9/46, C22C 38/00  
(31) Priority Document No :2020-143746  
(32) Priority Date :27/08/2020  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2021/022672  
Filing Date :15/06/2021  
(87) International Publication No :WO 2022/044494  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan

(72)Name of Inventor :

**1)YOSHIDA Mitsuru**

**2)SHUTO Hiroshi**

**3)TSUTSUI Kazumasa**

**4)HAYASHI Koutarou**

(57) Abstract :

This hot-rolled steel sheet has a predetermined chemical composition and is configured such that: with respect to the metal structure thereof, residual austenite constitutes less than 3.0% by area, ferrite constitutes less than 15.0% by area, and pearlite constitutes less than 5.0% by area; the E value which shows the periodicity of the metal structure is less than 10.7; the I value which shows the uniformity of the metal structure is less than 1.020; the standard deviation of the Mn concentration is 0.60% by mass or less; and the tensile strength is 780 MPa or more.

No. of Pages : 47 No. of Claims : 3



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008732 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

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(54) Title of the invention : DRIVE SYSTEM FOR PATIENT LIFT

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(51) International classification	:A61G 7/10
(31) Priority Document No	:2050957-6
(32) Priority Date	:17/08/2020
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/EP2021/072703
Filing Date	:16/08/2021
(87) International Publication No	:WO 2022/038084
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)ARJO IP HOLDING AKTIEBOLAG**  
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MALMÖ Sweden  
(72)Name of Inventor :  
**1)BOSSÉ, Joël**

---

(57) Abstract :

A drive system (100) for a patient lift. The drive system comprises a drum (321) configured to control the vertical movement of a patient support mounting device (11) of the patient lift via a load bearing member (12), at least one motor (270) adapted to drive the drum (321), each motor (270) being connected to an motor shaft gear (227), and a transmission (228) connecting the motor (270) and the drum (321), the transmission (228) being adapted to transfer torque from the motor (270) to the drum (321).

No. of Pages : 28 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008460 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : APPLYING TIME GAP OFFSETS FOR NON-TERRESTRIAL NETWORKS

(51) International classification :H04W 56/00, H04W  
72/04, H04B 7/185  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/107964  
Filing Date :07/08/2020  
(87) International Publication No :WO 2022/027654  
(61) 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.**

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California 95014 U.S.A.

(72)Name of Inventor :

**1)YAO, Chunhai**

**2)YE, Chunxuan**

**3)ZHANG, Dawei**

**4)HU, Haijing**

**5)SUN, Haitong**

**6)HE, Hong**

**7)OTERI, Oghenekome**

**8)VANGALA, Sarma V.**

**9)YE, Sigen**

**10)ZENG, Wei**

**11)YANG, Weidong**

**12)ZHANG, Yushu**

(57) Abstract :

A base station that determines a slot for uplink reception for a non-terrestrial network link between a base station and a user equipment is described. In exemplary embodiments, the base station determines a timing advance based on at least a random access preamble reception and determines an uplink offset based on the timing advance. The base station may further determine a candidate slot for an uplink reception based on at least the offset. In addition, the base station may determine if the candidate slot is available for the uplink reception. The base station may use the candidate slot for the uplink reception when the candidate uplink slot is available and may use the next available slot for the uplink reception when the candidate uplink slot is not available.

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008461 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : DEVICE FOR THE FABRICATION OF TUBES WITH A NON-CIRCULAR SECTION ORIFICE GEOMETRY AND FABRICATION METHOD

(51) International classification	:B29C 33/00, B29C 43/36, B29C 43/18, B29C 43/02, B29L 23/20
(31) Priority Document No	:20194767.8
(32) Priority Date	:07/09/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/IB2021/055014
Filing Date	:08/06/2021
(87) International Publication No	:WO 2022/049425
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)AISAPACK HOLDING SA**

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Switzerland

(72)Name of Inventor :

**1)FAVRE, Dominique**

(57) Abstract :

The invention concerns in particular a device for moulding an article in which the article is obtained by compression moulding a dose (14) of material in the molten state and comprises at least one orifice (23) after the compression moulding operation, said device comprising at least one die (10), one mandrel (11) cooperating with said die (10) to effect the operation of compression moulding of the dose and one orifice rod (12) sliding in said die (10), said device further comprising a shape endpiece (13) placed between the mandrel (11) and the orifice rod (12) to form the orifice (23) of the article.

No. of Pages : 17 No. of Claims : 15

(54) Title of the invention : EXTENDING TIME GAP RANGE FOR NON-TERRESTRIAL NETWORKS

(51) International classification	:H04W 56/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2020/107967
Filing Date	:07/08/2020
(87) International Publication No	:WO 2022/027655
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**4)HU, Haijing**  
**5)SUN, Haitong**  
**6)HE, Hong**  
**7)OTERI, Oghenekome**  
**8)VANGALA, Sarma V.**  
**9)YE, Sigen**  
**10)ZENG, Wei**  
**11)YANG, Weidong**  
**12)ZHANG, Yushu**

(57) Abstract :

A user equipment (UE) comprising a processor configured to perform the operations that determines an uplink (UL) slot is described. In exemplary embodiments, the UE receives, from a base station, a scaling factor through a first Radio Resource Control (RRC) signal. The UE may further determines an offset through a second RRC signal. In addition, the UE may receive from the base station, downlink control information (DCI) that includes an indication of an initial time gap. Furthermore, the UE may calculate a new time gap by at least applying the scaling factor to the initial time gap and determine a slot of uplink transmission based on at least the new time gap and the offset.

No. of Pages : 44 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008546 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SULFATE-POOR CALCIUM-CONTAINING POROUS MINERAL MATERIALS

(51) International classification :C04B 28/00, C04B 28/10, C04B 28/18  
(31) Priority Document No :10 2020 118 403.4  
(32) Priority Date :13/07/2020  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2021/067937  
Filing Date :30/06/2021  
(87) International Publication No :WO 2022/012928  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)KAISER, Christian**  
**2)THOME, Volker**  
**3)SEIFERT, Severin**  
**4)DITTRICH, Sebastian**  
**5)SCHOBER, Georg**

(57) Abstract :

The present invention relates to calcium-containing, porous, mineral materials having a sulfate content of not more than 1.5% by weight and a biopolymer content in the range of 0.001 to 5.00% by weight, each relative to the total weight of the materials, a method for producing these materials with the aid of biopolymers as stabilizers and the use of biopolymers for producing sulfate-poor calcium-containing, porous, mineral materials.

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008548 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

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(54) Title of the invention : PLUNGER APPARATUS FOR A DELIVERY DEVICE

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(51) International classification	:A61F 2/1667
(31) Priority Document No	:2011447.6
(32) Priority Date	:23/07/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/051649
Filing Date	:29/06/2021
(87) International Publication No	:WO 2022/018396
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)ALCON INC.**  
Address of Applicant :Rue Louis-d'Affry 6 1701 Fribourg  
Switzerland  
(72)Name of Inventor :  
**1)MEIJER, Robertus**

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(57) Abstract :

Plunger apparatus comprising a housing, a plunger, a source of stored mechanical energy, a rotatable element and an actuator. Rotation of the rotatable element provides a controlled release of the plunger for the movement of the plunger, under force provided by the source of stored mechanical energy. The actuator allows operation, by an operator, of the plunger apparatus to induce rotation of the rotatable element relative to the housing to provide a controlled release of the plunger for axial movement of the plunger under the force provided by the source of stored mechanical energy.

No. of Pages : 23 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008549 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : DRUG COMBINATION AND ITS USE IN THE TREATMENT OF CANCER

(51) International classification	:A61K 31/195, A61K 31/517, A61K 45/06, A61P 35/00	(71)Name of Applicant : <b>1)INDERES LTD</b> Address of Applicant :John Kennedy, Iris House Limassol, 3106 Cyprus
(31) Priority Document No	:20200100456	(72)Name of Inventor :
(32) Priority Date	:03/08/2020	<b>1)PANOTOPOULOS, Christos</b>
(33) Name of priority country	:Greece	
(86) International Application No	:PCT/IB2021/056735	
Filing Date	:26/07/2021	
(87) International Publication No	:WO 2022/029555	
(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 pharmaceutical product comprising L-2,4-diaminobutyric acid (DAB) and prazosin for use in the treatment of cancer by administration to the tumor. The invention also discloses the use of the said at least two active agents in the manufacture of a medicament and methods for the treatment of a cancer comprising intratumoral administration of the pharmaceutical formulation using a novel way of delivery.

No. of Pages : 30 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008581 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : FEATURES TO ENHANCE STAPLE HEIGHT CONSISTENCY IN CURVED SURGICAL STAPLER

(51) International classification	:A61B 17/072, A61B 90/00	(71)Name of Applicant :
(31) Priority Document No	:16/945042	<b>1)CILAG GMBH INTERNATIONAL</b>
(32) Priority Date	:31/07/2020	Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/IB2021/056957	<b>1)COURTWRIGHT, Nicholas D.</b>
Filing Date	:30/07/2021	<b>2)ZERKLE, Jason E.</b>
(87) International Publication No	:WO 2022/024055	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :  
An apparatus includes a housing, an anvil, a backing member, and a concave surface. The housing has a plurality of staples and the anvil is opposed from the housing such that the anvil and the housing are configured to cooperate to clamp tissue. The anvil is configured to form staples ejected from the housing into the clamped tissue. The backing member is coupled with the anvil and the concave surface defines a gap between the backing member and an adjacent component of the apparatus. The anvil is configured to deflect in a direction towards the gap in response to actuation of the apparatus to at least one of clamp tissue or staple tissue.

No. of Pages : 32 No. of Claims : 20



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008582 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SURGICAL INSTRUMENTS WITH TORSION SPINE DRIVE ARRANGEMENTS

(51) International classification	:A61B 17/072, A61B 17/00, A61B 17/29	(71)Name of Applicant :
(31) Priority Document No	:63/057430	<b>1)CILAG GMBH INTERNATIONAL</b>
(32) Priority Date	:28/07/2020	Address of Applicant :Gubelstrasse 34 6300 Zug Switzerland
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/IB2021/056783	<b>1)BAKOS, Gregory J.</b>
Filing Date	:27/07/2021	<b>2)PARKS, Darryl A.</b>
(87) International Publication No	:WO 2022/023961	<b>3)WITTE, Spencer J.</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Surgical instruments with articulatable surgical end effectors and rotary driven flexible drive members.

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008587 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : LOCKING MECHANISM, BATTERY BRACKET, ELECTRIC VEHICLE, AND METHOD FOR LOCKING AND UNLOCKING BATTERY PACK

(51) International classification :B60K 1/04, B60K 1/00, B60K 1/02  
(31) Priority Document No :202010794648.6  
(32) Priority Date :10/08/2020  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2021/111418  
Filing Date :09/08/2021  
(87) International Publication No :WO 2022/033411  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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**2)SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD.**  
(72)Name of Inventor :  
**1)ZHANG, Jianping**  
**2)HUANG, Chunhua**

(57) Abstract :

Disclosed are a locking mechanism, a battery bracket, an electric vehicle, and a method for locking and unlocking a battery pack. The locking mechanism comprises a lock base and a lock tongue; the lock tongue is rotatably mounted on the lock base around a rotary shaft; the lock base is provided with an accommodating cavity; the lock tongue is rotated so that a lock shaft located within the accommodating cavity is in a locked state and an unlocked state. When the lock shaft is in the locked state, the shaft center of the rotary shaft of the lock tongue is higher than the shaft center of the lock shaft. When the lock shaft is in the locked state, the lock shaft is locked in the accommodating cavity by the lock tongue. When the lock tongue rotates upward, the lock shaft is converted into the unlocked state and may be removed from the accommodating cavity, and the operation is relatively simple. As the shaft center of the rotary shaft of the lock tongue in the locked state is higher than the shaft center of the lock shaft, thus when the lock shaft moves in the accommodating cavity, the lock tongue may be driven to rotate downward, preventing the lock tongue from rotating upward and causing the lock shaft to convert into the unlocked state, and improving the reliability of fixing a battery pack.

No. of Pages : 21 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008588 A

(19) INDIA

(22) Date of filing of Application :09/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND APPARATUS FOR DISTRIBUTION OF DYNAMIC MAC ADDRESSES

(51) International classification :H04L 29/12  
(31) Priority Document No :63/065202  
(32) Priority Date :13/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/045793  
Filing Date :12/08/2021  
(87) International Publication No :WO 2022/036130  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)DE LA OLIVA, Antonio**  
**2)OLVERA-HERNANDEZ, Ulises**  
**3)GAZDA, Robert**

(57) Abstract :

Method, apparatus, and systems for distribution of dynamic MAC addresses are provided. For example, a method implemented by a wireless transmit/receive unit (WTRU) for wireless communications includes receiving a message including port management information, determining configuration information from the port management information, where the configuration information indicates at least information related to a set of unicast or multicast addresses, and forwarding the configuration information to configure a Proxy using the information related to the set of unicast or multicast addresses.

No. of Pages : 34 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008618 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SEPARATOR FOR LEAD STORAGE BATTERY AND LEAD STORAGE BATTERY

(51) International classification	:H01M 50/449, H01M 50/42, H01M 50/434, H01M 50/446, H01M 50/463	(71)Name of Applicant : <b>1)ASAHI KASEI KABUSHIKI KAISHA</b> Address of Applicant :1-1-2 Yurakucho, Chiyoda-ku, Tokyo 1000006 Japan
(31) Priority Document No	:2020-136971	(72)Name of Inventor : <b>1)FUNAKI, Masuro</b>
(32) Priority Date	:14/08/2020	<b>2)UOZUMI, Makoto</b>
(33) Name of priority country	:Japan	<b>3)IIZUKA, Yasuhito</b>
(86) International Application No	:PCT/JP2021/029768	
Filing Date	:12/08/2021	
(87) International Publication No	:WO 2022/034918	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The purpose of the present disclosure is to provide a separator for a lead storage battery and a lead storage battery using the same having excellent liquid reduction characteristics (Water Loss performance). According to the present disclosure, provided is the separator for a lead storage battery, which comprises: a substrate; and a layer laminated on at least one side of the substrate, containing a conductive material, and having cracks.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008633 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : BATTERY AND RELATED APPARATUS THEREOF, PREPARATION METHOD AND PREPARATION DEVICE

(51) International classification :H01M 10/6556  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2020/101440  
Filing Date :10/07/2020  
(87) International Publication No :WO 2022/006895  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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**2)YAO, Pengcheng**

**3)ZENG, Zhimin**

**4)WU, Kai**

**5)CHEN, Xingdi**

**6)WANG, Peng**

**7)CHEN, Xiaobo**

(57) Abstract :

The present application discloses a battery and a related apparatus thereof, a preparation method and a preparation device. The battery comprises a battery cell, the battery cell comprising a pressure relief mechanism and at least two walls, the at least two walls comprising a first wall and a second wall which are provided in an intersecting manner, the pressure relief mechanism being provided on the first wall, and the pressure relief mechanism being activated when the internal pressure or temperature of the battery cell reaches a threshold so as to relieve the internal pressure; a thermal management component attached to the first wall, the thermal management component being used to contain fluid so as to cool the battery cell; and a support component attached to the second wall and used to support the battery cell, wherein the thermal management component is configured such that when the pressure relief mechanism is activated, the exhaust discharged from the inside the battery cell passes through the thermal management component. Such an arrangement of the pressure relief mechanism, the thermal management component and the support component can contribute to improving the space utilization of batteries such as those suitable to be arranged in a vehicle, thereby helping to improve the compactness of the batteries, and also improving the safety of the batteries.

No. of Pages : 41 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008634 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : BATTERY AND RELATED APPARATUS THEREOF, AND PREPARATION METHOD AND PREPARATION DEVICE

(51) International classification	:H01M 10/613, H01M 50/289, H01M 50/291	(71)Name of Applicant :
(31) Priority Document No	:PCT/CN2020/101443	<b>1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED</b>
(32) Priority Date	:10/07/2020	Address of Applicant :No.2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 China
(33) Name of priority country	:China	(72)Name of Inventor :
(86) International Application No	:PCT/CN2021/082481	<b>1)GU, Mingguang</b>
Filing Date	:23/03/2021	<b>2)CHEN, Xiaobo</b>
(87) International Publication No	:WO 2022/007435	<b>3)LI, Yao</b>
(61) Patent of Addition to Application Number	:NA	<b>4)LI, Xianda</b>
Filing Date	:NA	<b>5)YUE, Jinru</b>
(62) Divisional to Application Number	:NA	<b>6)YANG, Piaopiao</b>
Filing Date	:NA	<b>7)HU, Lu</b>

(57) Abstract :

Disclosed are a battery and a related apparatus thereof, and a preparation method and a preparation device. The battery comprises: a battery cell, wherein the battery cell comprises a pressure relief mechanism, and the pressure relief mechanism is configured to be capable of being actuated when the internal pressure or temperature of the battery cell reaches a threshold so as to release the internal pressure; an attachment member adapted to be attached to the battery cell by means of an adhesive; and an isolation member, wherein the isolation member is configured to be capable of preventing the adhesive from being applied between the attachment member and the pressure relief mechanism. An isolation member is provided, such that an adhesive can be effectively prevented from being applied between an attachment member and a pressure relief mechanism during battery production. In addition, the adhesive application efficiency and accuracy can also be improved, so as to improve the battery production efficiency.

No. of Pages : 70 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008641 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : ACOUSTIC DEVICE

(51) International classification :H04R 1/10  
(31) Priority Document No :202011328519.4  
(32) Priority Date :24/11/2020  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2021/132569  
Filing Date :23/11/2021  
(87) International Publication No :WO 2022/111485  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(72)Name of Inventor :  
**1)ZHANG, Haofeng**  
**2)XU, Jiang**  
**3)ZHENG, Zeying**  
**4)WANG, Yonggen**  
**5)WANG, Liwei**

(57) Abstract :

An acoustic device (200, 300) comprises a hook-shaped portion (210, 310), a connecting portion (230, 330) and a holding portion (220, 320). When the acoustic device (200, 300) is worn by a user, the hook-shaped portion (210, 310) is hung between a first side of an ear (100) of the user and the user's head, the holding portion (220, 320) comes into contact with a second side of the ear, and the hook-shaped portion (210, 310) is in connection with the holding portion (220, 320) by means of the connecting portion (230, 330). The hook-shaped portion (210, 310) comprises a first portion (311) and a second portion (312), wherein the first portion (311) is connected to the connecting portion (230, 330), and the second portion (312) is connected to the first portion (311); a projection of the first portion (311) onto a sagittal plane of the user has a first curve; a projection of the second portion (312) onto the sagittal plane of the user has a second curve; the first curve has a first extreme point in a first direction; the second curve has a second extreme point in the first direction; the first direction is perpendicular to a cross section direction of the user; and a point where the first curve and the second curve are connected to each other is a point where the bottom edge of the holding portion (220, 320) away from the connecting portion (230, 330) in the direction perpendicular to the cross section of the user and a projection of the hook-shaped portion (210, 310) onto the sagittal plane of the user intersect.

No. of Pages : 58 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008944 A

(19) INDIA

(22) Date of filing of Application :11/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : PHOTOVOLTAIC SYSTEM HAVING A CABLE SUPPORT STRUCTURE

(51) International classification :H02S 20/00  
(31) Priority Document No :102020000019123  
(32) Priority Date :04/08/2020  
(33) Name of priority country :Italy  
(86) International Application No :PCT/EP2021/071631  
Filing Date :03/08/2021  
(87) International Publication No :WO 2022/029107  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)**Name of Applicant :**  
**1)VECON GMBH**  
Address of Applicant :Breitwiese 1 66265 HEUSWEILER  
Germany  
(72)**Name of Inventor :**  
**1)CZALOUN, Johann**

(57) Abstract :

The invention relates to a photovoltaic system (100) having a cable (101) or cable bundle (121), comprising at least one photovoltaic module (104). According to the invention, the photovoltaic module (104) is suspended from the cable (101) or cable bundle (121), wherein the centre of gravity of the photovoltaic module (104) is below the cable (101) or the cable bundle (121), and wherein the photovoltaic module (104) swings relative to at least one pivot axis (102), which is substantially parallel to the longitudinal extension of the cable (101) or cable bundle (121), and the photovoltaic module (104) has a rigidity sufficient to substantially maintain its shape even under load.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317007917 A

(19) INDIA

(22) Date of filing of Application :07/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : IMPROVED FRAME SYSTEM FOR DOORS OR FIXED WINDOWS AND MODULAR COMPOSITE BAYS

(51) International classification	:E06B 3/56, E06B 3/263
(31) Priority Document No	:116745
(32) Priority Date	:18/09/2020
(33) Name of priority country	:Portugal
(86) International Application No	:PCT/IB2021/056410
Filing Date	:15/07/2021
(87) International Publication No	:WO 2022/058804
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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Address of Applicant :Zona Industrial De Esposende, Rua Dr. Francisco Sá Carneiro 475c 4740-473 Esposende Portugal

(72)Name of Inventor :

**1)BRÁS, Bruno**

(57) Abstract :

The present invention consists of an improved frame system for doors or fixed windows and modular composite bays, for creating a minimalist exterior appearance. It comprises at least one fixed rim (7), at least one movable leaf (8) in which glass (4) is glued to the leaf (8), instead of being lodged or inserted, forming a structural part of the leaf (8) and making it possible, for example, to manufacture bays and/or tilt and turn windows with larger dimensions. The invention comprises fastening chambers for fastening brackets (1), located in the fixed rim (7); thermal break elements (2); hardware (5) and elements for the mechanical retention of the glass (4) on the outside of the leaf (8). The gluing of the glass (4) makes it possible to eliminate the twisting of the monolithic leaf block and optimize the mechanical behaviour of the system, and makes the functional performance more reliable as it improves the functionality of the operating accessories, increasing the service life of the wear accessories.

No. of Pages : 8 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008968 A

(19) INDIA

(22) Date of filing of Application :11/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : UAS AUTHENTICATION AND SECURITY ESTABLISHMENT

(51) International classification	:G08G 5/00, H04W 12/06	(71)Name of Applicant :
(31) Priority Document No	:63/062286	<b>1)LENOVO (SINGAPORE) PTE. LTD.</b>
(32) Priority Date	:06/08/2020	Address of Applicant :151, Lorong Chuan #02-01 New Tech Park 556741 Singapore
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/IB2021/057274	<b>1)BASKARAN, Sheeba Backia Mary</b>
Filing Date	:06/08/2021	<b>2)KUNZ, Andreas</b>
(87) International Publication No	:WO 2022/029714	<b>3)KARAMPATSI, Dimitrios</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Apparatuses, methods, and systems are disclosed for UAS authentication and security establishment. One apparatus (1200) includes a transceiver (1225) that sends, from a first network function of a mobile wireless communication network, an authentication request message from a user equipment (UE) to a UAS Service Supplier (USS)/UAS Traffic Management (UTM), the UE comprising at least one of an unmanned aerial vehicle (UAV) and a UAV controller (UAV-C). The transceiver (1225) receives, at the first network function from the USS/UTM, an authentication response message comprising a UAS identifier and a UAS security context, the UAS security context comprising a UAS root key and a UAS root key identifier.

No. of Pages : 53 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008971 A

(19) INDIA

(22) Date of filing of Application :11/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : TRANSFER FILM, PLASTICS INJECTION-MOULDED PART AND METHOD FOR THE PRODUCTION THEREOF

(51) International classification :B44C 1/17, B44C  
3/02, B44C 5/04  
(31) Priority Document No :10 2020 120 754.9  
(32) Priority Date :06/08/2020  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2021/069680  
Filing Date :15/07/2021  
(87) International Publication No :WO 2022/028838  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)FALGNER, Steffen**  
**2)SÜß, Christoph**  
**3)OBERNDÖRFER, Sven**

(57) Abstract :

The invention relates to methods for the production of a transfer film (1), in particular an IMD transfer film (1), wherein the following steps are carried out, in particular in the indicated sequence: a) provision of a carrier layer (3), b) provision of a transfer layer (2) comprising a decorative layer (21), wherein the transfer layer (2) is arranged on the carrier layer (3), c) application of one or more shape elements (40) to the carrier layer (3), wherein the one or more shape elements (40) have a three-dimensional shape and are applied in-register to the decorative layer (21). Furthermore, the invention relates to a method for coating a plastics injection-moulded part with the transfer film, and to the transfer film and to the plastics injection-moulded part.

No. of Pages : 70 No. of Claims : 64

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008645 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : TISSUE PLASMINOGEN ACTIVATOR FORMULATION

(51) International classification	:A61L 29/00, A61L 15/00
(31) Priority Document No	:63/063770
(32) Priority Date	:10/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2021/071977
Filing Date	:06/08/2021
(87) International Publication No	:WO 2022/033969
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**  
**1)CHIESI FARMACEUTICI S.P.A.**  
Address of Applicant :Via Palermo 26/A 43122 Parma Italy

(72)**Name of Inventor :**  
**1)ANOVER, Ray Anthony Mina**

(57) Abstract :

The present disclosure relates to stable formulations of tissue-type plasminogen activator (tPA). In particular, the disclosure relates to specific new formulations, methods of preparing them and methods of using them.

No. of Pages : 43 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202317008652 A

(19) INDIA

(22) Date of filing of Application :10/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : RADIO FREQUENCY MOISTURE-REMOVAL SYSTEM

(51) International classification :F26B 3/347, F26B  
17/12, A23B 9/08  
(31) Priority Document No :16/803473  
(32) Priority Date :27/02/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/019078  
Filing Date :22/02/2021  
(87) International Publication No :WO 2021/173494  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DRYMAX DDG LLC**  
Address of Applicant :7674 Washington Avenue South Eden  
Prairie, MN 55344 U.S.A.  
(72)Name of Inventor :  
**1)EICHHORN, Kevin**  
**2)AJIT, Pratheik**  
**3)SINGH, Havneet**

(57) Abstract :

Disclosed herein are devices systems and methods for removing moisture from a material via radio frequency electromagnetic wave exposure. A moisture-removal system can include having spaced apart a first and a second electrical conductor extending along a same first direction, each of the first and second electrical conductor comprising opposing broad top and bottom sides, the broad bottom side of the first electrical conductor facing the broad top side of the second electrical conductor. The system includes a material containing moisture at least partially filling the space between the first and the second electrical conductor. The system further includes at least one first wire attached to a first radio frequency generator and to the first end of the first electrical conductor. The system also includes at least one second wire attached to the electrical ground of the first radio frequency generator to the first end of the second electrical conductor.

No. of Pages : 49 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121028216 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A COMPOSITION OF A PHASE CHANGE MATERIAL AND PROCESS THEREOF

(51) International classification	:C09K0005060000, H01L0045000000, F28D0020020000, B65D0081380000, C08J0009000000	(71)Name of Applicant : <b>1)Raj Ashwinbhai Andani</b> Address of Applicant :Raj Ashwinbhai Andani, Near S.T. Bus Station, Gir Gadhada, Gir Somnath,Gujarat India, Gujarat India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Raj Ashwinbhai Andani</b>
(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 COMPOSITION OF A PHASE CHANGE MATERIAL AND PROCESS THEREOF The present invention relates to the composition and process of a Phase change materials. In particular, the present invention provides a composition that improves the thermal conductivity enhancing the freezing time of the phase change material along with the process of said composition. Further, the present invention provides an ammonia-based composition of the phase change material. The present invention thereby, provides highly stable non-toxic, non-corrosive and cost-effective phase change material along with a less time-consuming and is energy-efficient process for the same.

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

(54) Title of the invention : PTO ACTUATION IN AUTOMATED MANUAL TRANSMISSION VEHICLE

(51) International classification :B60K0017280000,  
B60K0025060000,  
G06Q0050300000,  
B60L0001000000,  
G01N0033680000

(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 :  
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District Dhar Madhya Pradesh India Madhya Pradesh India

(72)Name of Inventor :  
**1)SACHIN AGARWAL**  
**2)AMIT SANDOOJA**  
**3)BASANT BALLABH**  
**4)JAYDEEP FUNDE**

(57) Abstract :

ABSTRACT The present subject matter discloses an automatic PTO actuation system comprising a PTO switch pressed by driver manually to send signal to open the clutch, a signal system to send signal to AMT TCU to send command towards opening the clutch. Upon opening the clutch, TCU send signal on CAN, a solenoid configured in between PTO and TCU to receive the clutch open signal through CAN and allow the air flow inside the PTO to engage and a sensor to send signal on CAN, which has been received by TCU and close the clutch. Yours Faithfully ANIL KUMAR PANDEY (IN P/A 2359) AGENT FOR THE APPLICANT(S)



FIGURE 1

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121047821 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DIFFERENTIAL CASE UNIT FOR HUB REDUCTION AXLE

(51) International classification	:F16H0048400000, F16H0048080000, F16H0048380000, B60K0017160000, G06F0013000000	(71)Name of Applicant : <b>1)VE Commercial Vehicles Ltd.</b> Address of Applicant :102, Industrial Area 1 Pithampur, District Dhar Madhya Pradesh India Madhya Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SACHIN AGARWAL</b>
(33) Name of priority country	:NA	<b>2)KUNAL KAMAL</b>
(86) International Application No	:NA	<b>3)SAURABH SINGH</b>
Filing Date	:NA	
(87) 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 subject matter discloses a cost effective single integrated differential casing system comprising an integrated differential casing system characterized by low-cost robust single integrated differential casing system to avoid integration of higher numbers of parts or components and discloses a method of manufacturing the same. Yours Faithfully ANIL KUMAR PANDEY (IN P/A 2359) AGENT FOR THE APPLICANT(S)

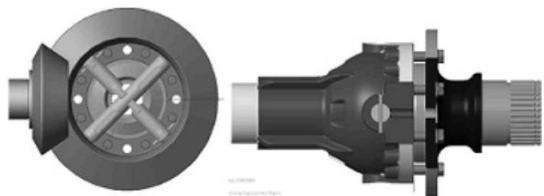


FIGURE 1

No. of Pages : 9 No. of Claims : 3



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121047823 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INTEGRATED RING GEAR SYSTEM

(51) International classification :F16H0048380000,  
F16H0048400000,  
F02C0007360000,  
F16H0048080000,  
F02N0015060000

(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)VE Commercial Vehicles Ltd.**

Address of Applicant :102, Industrial Area 1 Pithampur,  
District Dhar Madhya Pradesh India Madhya Pradesh India

(72)Name of Inventor :

**1)SACHIN AGARWAL**

**2)KUNAL KAMAL**

**3)SAURABH SINGH**

(57) Abstract :

ABSTRACT The present subject matter discloses a cost effective single integrated planetary casing system comprising an integrated planetary casing system characterized by low-cost robust single integrated planetary casing system to avoid integration of higher numbers of parts or components and discloses a method of manufacturing the same. Yours Faithfully ANIL KUMAR PANDEY (IN P/A 2359) AGENT FOR THE APPLICANT(S)

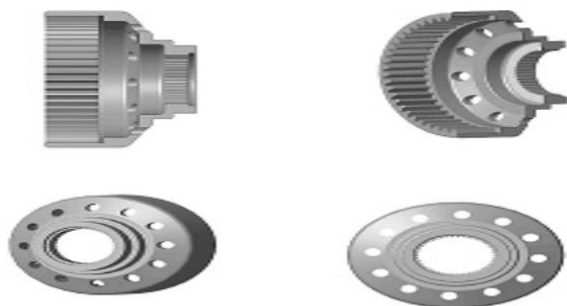


FIGURE 02

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053259 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : HEATING DEVICE

(51) International classification :B60H0001220000,  
H05B0006700000,  
B60N0002560000,  
F24H0009180000,  
F24H0003040000

(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)ETTRICK INNOVATIONS PRIVATE LIMITED**  
Address of Applicant :18A, NRUSINHA SARASWATI  
SOCIETY, NEAR SHRIRAM PARK, KOTHRUD, PUNE - 411  
029, MH Maharashtra India

(72)Name of Inventor :  
**1)SMITA DEVIDAS SHIROLE**  
**2)NEELAM BAKSHI**

(57) Abstract :

The present invention provides the concept related to the heating device. In the present technical domain various heating device is available for only a heating and steaming the food items. The present invention discloses a product provides a heating and the steaming of one or more food items without changing its taste and shape. The heating of the food items includes a convectional heat transfer method wherein the heat distributed equally to the one or more food items. Fig 2 shows the design of heating device wherein the heating is taking placed. FIGURE 2



FIGURE 2

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053273 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PHARMACEUTICALLY IMPORTANT MESO-SUBSTITUTED PORPHYRINS AND PROCESS FOR THE SYNTHESIS THEREOF

(51) International classification	:C07D0487220000, A61K0041000000, C07D0207333000, B01J0031180000, C07C0227180000	(71) <b>Name of Applicant :</b> <b>1)DR. SILVIU PHARMACHEM PVT. LTD.</b> Address of Applicant :M-169, Pimpale Saudagar; Aundh post; Pune; Maharashtra; India; 411027 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHISE Anil Dnyanoba</b>
(33) Name of priority country	:NA	<b>2)BHISE Abhinav Sunil</b>
(86) International Application No	:NA	<b>3)BHISE Pranav Shankar</b>
Filing Date	:NA	<b>4)BHISE Gargi Anil</b>
(87) 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 an the process for preparation of porphyrin derivatives with high purity and yield. The present invention relates to the process which issimple, highly efficient, and reproducible. The present invention provides the process for preparation of porphyrin derivative comprising addition of pyrrole in the pyridine aldehyde in presence of weak acid.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053279 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR THE PRODUCTION OF ERYTHRITOL FROM RENEWABLE RESOURCES

(51) International classification	:C12P0007180000, C10L0001020000, C07G0001000000, C12N0001160000, C12P0007640000	(71) <b>Name of Applicant :</b> <b>1)PRAJ INDUSTRIES LIMITED</b> Address of Applicant :Praj Industries Limited, PRAJ Tower, 274-275, Bhumkar Chowk -Hinjewadi Road, Hinjewadi, Pune, India -411057 Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MANDAR SACHIDANAND DESHPANDE</b>
(33) Name of priority country	:NA	<b>2)ANAND RAMESHCHANDRA GHOSALKAR</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 the production of erythritol from renewable resources. The invention relates to a method for the preparation of erythritol using yeast strain, it particularly relates to the use of renewable resource as a carbon source and microbial lysate as nitrogen as well as a nutrient source. More particularly relates to the use of ethanol as a carbon source and microbial lysate as nitrogen as well as a nutrient source for erythritol production by fermenting it with Moniliella pollinis.

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

(54) Title of the invention : AN IMPROVED ROTOR FOR CENTRIFUGES

(51) International classification :B04B0005040000,  
B04B0007080000,  
B29L0031000000,  
B62D0025200000,  
F01C0021080000

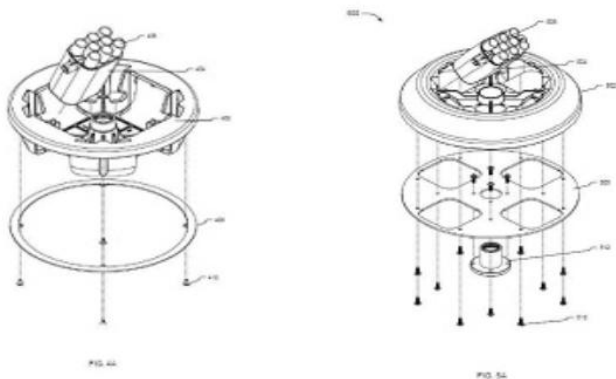
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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SEZ, Kolavada Road, Sector-26, Gandhinagar - 382026, Gujarat,  
India. Gujarat India

(72)Name of Inventor :  
**1)ADITYA R SHANKAR**  
**2)RAVI SHANKAR MRUTHYUNJAYA**  
**3)HIMANSHU JASHVANTLAL GAJJAR**

(57) Abstract :

An improved centrifuge rotor 400/500 is disclosed having a rotor body 402/502 made of a polymer material and a planar shaped reinforcement 408/508 fixed to a bottom side of the rotor body 402/502 by screw 410/510 such that the reinforcement lies symmetrically in a plane perpendicular to an axis of rotation of the centrifuge rotor 400/500. In different embodiments the reinforcement 408 can be annular shaped fitted in a recess on a bottom surface of the rotor body 402, or the reinforcement 508 can be disc shaped fitted as a cover for a bottom opening of a hollow rotor body 502. The reinforcement can be made of a high strength steel or carbon fibre composite material, and economically mass produced by stamping or laser cutting process.



No. of Pages : 24 No. of Claims : 12

(54) Title of the invention : METHOD AND SYSTEM FOR PERSONALIZED SUBSTITUTE PRODUCT RECOMMENDATION

(51) International classification	:G06Q0030060000, G06Q0030020000, G06F0003010000, G11B0027110000, H04S0003000000	(71)Name of Applicant : <b>1)Tata Consultancy Services Limited</b> Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai Maharashtra India 400021 Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)GUBBI LAKSHMINARASIMHA, Jayavardhana Rama</b>
(33) Name of priority country	:NA	<b>2)BHATTACHARYA, Gaurab</b>
(86) International Application No	:NA	<b>3)PURUSHOTHAMAN, Balamuralidhar</b>
Filing Date	:NA	<b>4)VASUDEVAN, Bagyalakshimi</b>
(87) International Publication No	: NA	<b>5)KILARI, Nikhil</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Product recommendation is a very important aspect of e-commerce applications. Traditional product recommendation systems recommend products similar to a query image provided by a user and allows minimum or no personalization. It is challenging to incorporate personalization due to the presence of overlapping fine-grained attributes, variations in attribute style and visual appearance, small inter-class variation and class imbalance in the images of products. Embodiments of present disclosure address these challenges by a method of personalized substitute product recommendation using Personalized Attribute Search Networks (PATsNets) comprising neural network layers interleaved with Attentive Style Embedding (ASE) modules to generate attribute-aware feature representation vector of a query image provided by the user and conforming to the personalization instructions specified by the user. This feature representation vector is then used to recommend substitute products to the user. Thus, embodiments of present disclosure enable accurate substitute product recommendation suiting user requirements. [To be published with FIG. 2]

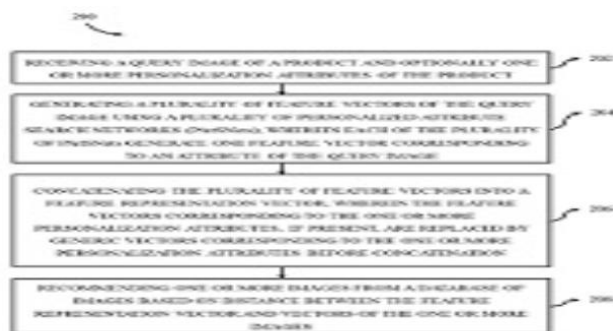


FIG. 2

No. of Pages : 40 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053375 A

(19) INDIA

(22) Date of filing of Application :19/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MULTIFUNCTIONAL PLANT GROWTH MAINTENANCE DEVICE

(51) International classification :A01C0021000000,  
F25D0017040000,  
A01G0009029000,  
A01N0063000000,  
A01G0007040000

(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 :

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Address of Applicant :G H Raisonni University, Saikheda,  
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Pradesh-480377, India Madhya Pradesh India

**2)GHR Labs & Research Centre**

(72)Name of Inventor :

**1)Dr. Arvind Baburao Bodhe**

**2)Dr. Pragati Domaji Dethe**

**3)Dr. Ganesh Nivrutti akhade**

(57) Abstract :

A multifunctional plant growth maintenance device includes, a housing 1 segregated into multiple compartments 2 for storing different plant varieties, an omnidirectional conveyer unit 3 convey sapling pot(s) 11 towards one of the compartments 2, wherein multiple iris openings 4 coupled with a sensor connected to a microcontroller to detects dimensions of the pot 11 providing output towards the microcontroller that regulates the openings 4 to hold pot(s) 11 in stable position, an imaging unit 5 installed within the slot to detects type of plant variety and the microcontroller analyses optimum growth conditions based on output generated by the unit 5 and a robotic arm 6 coupled with a nutrition sensor for detecting nutritional components in soil, multiple nozzles 12 arranged within each compartment 2 for dispensing growth promoting solutions/gases to maintain optimum growth environment within the compartment 2.

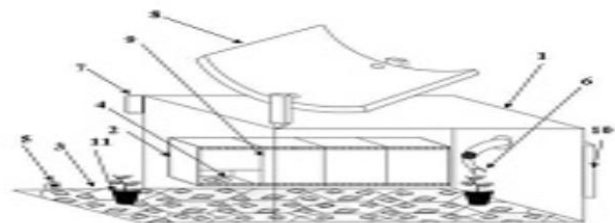


Figure 1

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053499 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AJWAIN AYUR CIGARETTE FOR RELIEF FROM COLD AND COUGH AND DYSPEPSIA.

(51) International classification	:A24B0015160000, A61K0036185000, C11B0009020000, A24D0001180000, A24D0001000000	(71)Name of Applicant : <b>1)Prashant Hari Zambre</b> Address of Applicant :G-2, I- Building, Shiwaji Park, Khodiyar Nagar, chharwada, Vapi Gujarat India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Prashant Hari Zambre</b>
(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 :

AJWAIN AYUR CIGARETTES (also called tobacco-free cigarettes or nicotine-free cigarettes or Herbal cigarettes) are cigarettes that usually contain no tobacco or nicotine but are made from a mixture of ajwain and various herbs and/or other plant materials. A new-type AJWAIN AYUR CIGARETTE is an improved and creative product of the prior herbal cigarette. The product contains certain quantities of various Ayurvedic medicines, which belong to various plant parts of the herb, including roots, stems, leaves, seeds, flowers, fruits, which are in the form of powder, granules, leaves and seeds taken together and mixed well. Small predetermined amounts are added to remix the mixture using ghee and/or essential oil, in liquid form, depending on the taste. Using machines, this mixture, which is dry and combustible, is filled inside cigarette paper tubes, along with 'sufficient' moisture. Individual cigarettes are packaged together to be sold in the market. Alternatively, these cigarette paper tubes can be filled by hand with a herbal mixture that can be placed in a pouch.

No. of Pages : 10 No. of Claims : 4



(54) Title of the invention : AN OPERATING FRAMEWORK FOR COMPUTER VISION DEVICES

(51) International classification :H04L0029080000,  
H04L0029120000,  
G06K0009000000,  
H04L0029060000,  
H01L0033000000

(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)DIYCAM INDIA PRIVATE LIMITED**  
Address of Applicant :OFFICE NO. 301, MANGALYA  
COMPLEX, B-WING, 3rd FLOOR, BEHIND RADISSON BLU  
HOTEL, MAROL MAROSHI ROAD, ANDHERI EAST,  
MUMBAI, MAHARASHTRA, INDIA Maharashtra India

(72)Name of Inventor :  
**1)JEKIN DEDHIA**  
**2)GAGAN RANDHAWA**

(57) Abstract :

An operating framework for computer vision devices is disclosed. Said operating framework comprises: a base container (11); a service management container (12); a user management container (13); a camera management container (14); an at least a socket server (16); a frontend container (22); an API gateway (18); an at least a use case container (15); an at least an AI model container (17), and an at least an IoT service container (25). Said containers or components (11, 12, 13, 14, 15, 16, 17, 22, and 25) are independent from each other, may be distributed on different computer vision devices, and can jointly work as a single device (10). The method of working is also disclosed. The advantages of the disclosed operating framework for computer vision devices are: faster real-time results on a large scale; enhanced operational reliability; and increased security for devices and data. Figure to be Included is Figure 1



Figure 1

No. of Pages : 45 No. of Claims : 11

(54) Title of the invention : SIDE DISPENSING TYPE FARMYARD MANURE APPLICATOR

(51) International classification	:A01C0003060000, B01F0015020000, B01F0007000000, A01K0005000000, B01F0007080000	(71)Name of Applicant : <b>1)Indian Council of Agricultural Research - Central Institute of Agricultural Engineering</b> Address of Applicant :Nabibagh, Berasia Road, Bhopal- 462038, Madhya Pradesh. Madhya Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Abhijit Khadatkar</b>
(33) Name of priority country	:NA	<b>2)C.P. Sawant</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 farmyard manure applicator with side dispensing for orchards, comprises of a mixing chamber (1), a pair of bottom augers (18) for dispensing the farmyard manure, hydraulic motor (7), and conveyor-type side dispensing unit (8 & 11). The side dispensing unit (8 & 11) using a conveyor belt (14) are attached on both side of the applicator at the lower end of the mixing chamber (1) to dispense farmyard manure uniformly. The two augers (18) placed at the bottom of the mixing chamber (1) conveys the farmyard manure to the front end of the applicator where it gets displaced from the dispensing outlet (12) provided at the lower part of the chamber (1). The mixing chamber (1) has a central shaft (3) with cross bars (20) for mixing the farmyard manure. The applicator operates with tractor hydraulics with hydraulic motor (7) and speed reduction through a gear box (5). The applicator has provision to control the flow of farmyard manure by opening the dispensing outlet (12) as well as by the help of a flow control valve (6) attached with the hydraulic motor (7). The length of the conveying farmyard manure can be increased by extending the extension plate (13) attached to the lower part of the conveyor (14).

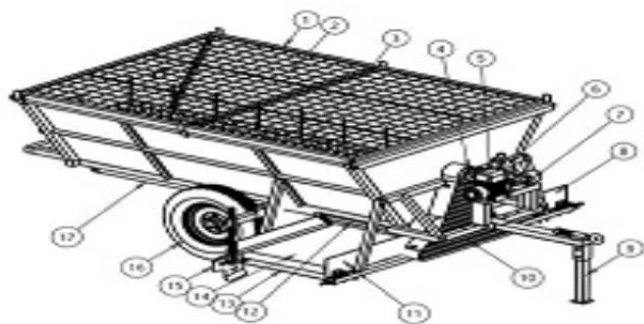


Figure 1

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

(54) Title of the invention : AIR CIRCULATOR/DEFLECTOR AND CONTROLS

(51) International classification :H01P0001387000,  
F04D0025080000,  
F24C0015320000,  
H01P0001380000,  
B62D0035000000

(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 :  
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Address of Applicant :FLAT NO. 5, W-7, RAWAL  
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**2)JASPAL KAUR HARBHAJAN SINGH MARAS**

(72)Name of Inventor :  
**1)MARAS HARBHAJAN SINGH AMAR SINGH.**  
**2)JASPAL KAUR HARBHAJAN SINGH MARAS**

(57) Abstract :

The present invention relates to air circulator/deflector and controls for circulating/deflecting /diverting air in surroundings and covering larger area both in horizontal and vertical directions, comprising of a frame including a plurality of louvers partly positioned at distance from each other. Further, the present invention includes a crank shaft (CS) having multiple bumps, and a synchronous motor (M) fitted within the frame. A downward shaft of the motor (M) is to rotate the crank shaft (CS) at corner of the frame such that connecting rods (R1, R2) are drawn on both sides of the frame at 90 degrees. The crank shaft bumps on crank rotation translates the motion into oscillation of louvers sets, therefore the bumps height and degree are systematized to get circulatory motion of air or personalized circulatory air can be achieved.

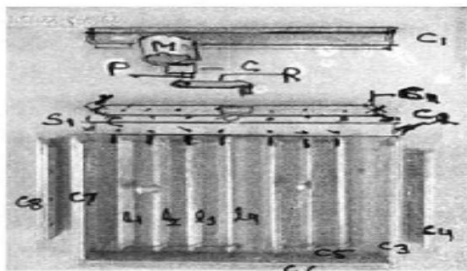


FIG. 2

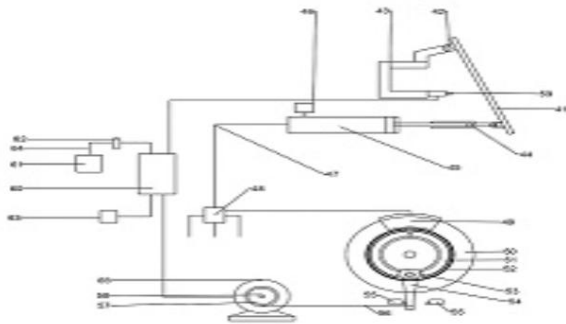
No. of Pages : 33 No. of Claims : 10

(54) Title of the invention : BRAKE FAILURE DETECTION SYSTEM WITH EMERGENCY BRAKING ASSIST.

(51) International classification	:B60T0007120000, B60T0017220000, B60T0008171000, B60T0011100000, B60Q0001440000	(71)Name of Applicant : <b>1)Vishal Balaso Patil</b> Address of Applicant :A/P-Yelapur. Maharashtra India <b>2)Mr.Ganesh Kumar Raje.</b> <b>3)Mr. Vineet Mahesh Chaudhari.</b> <b>4)Mr. Nikhil Dattatray Dhake.</b> <b>5)Mr. Sumeet Suresh Landge.</b> <b>6)Mr. Amol Sanjay Shirsath.</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Vishal Balaso Patil</b> <b>2)Mr.Ganesh Kumar Raje.</b> <b>3)Mr. Vineet Mahesh Chaudhari.</b> <b>4)Mr. Nikhil Dattatray Dhake.</b> <b>5)Mr. Sumeet Suresh Landge.</b> <b>6)Mr. Amol Sanjay Shirsath.</b>
(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 :

In automotive vehicles, the brake are playing an important role and it acts as a control system which is used to keep the vehicle stationary as well as to retard the speed of the vehicle. In recent developments in the automobile sector. Many safety features are developed to improve braking efficiency. Such as Anti-locking braking system, electronic brake distribution, brake detection system using sensors, and many more. These systems are mounted on the pressure lines of the braking system. If the system losses the pressure then, this all systems remain idle and the driver loses control over the vehicle. This invention is related to the design and development of the braking systems. In which two different types of braking mechanisms are used first is the hydraulic braking system which is used for normal braking purposes and cable-operated mechanical drum braking system for emergency braking purposes. The normal braking system works on Pascal's law as it is working on hydraulic pressure. The single master cylinder and the single brake pedal are used to operate the hydraulic braking system. The brake pedal over the travel switch is used to identify the pedal movement because, when the braking system works normally then due to the pressure the pedal movement is defined to a specific distance. But when the system losses the pressures then the brake pedal travels more distance than normal braking. This travel movement is used to push the brake over the travel switch which turns on the electronic control unit. This unit rotates the DC motor in such a way that the mechanical brake is applied by using a braking wire and gradual braking is applied and the vehicle is stopped without jerk. Two limit switches are used to restrict the movement of the dc motor. The vehicle remains stationary until the brake over travel switch is not pressed again manually. As the system is applying gradual braking instead of the sudden brake as applied by hand brakes the system is safe for use. This system avoids skidding of vehicles. Figure.1.



No. of Pages : 23 No. of Claims : 7

(54) Title of the invention : ABRASIVE PEELING MACHINE FOR MEDICINAL ROOT CROPS

(51) International classification	:A23N0007000000, A23N0007020000, A23N0005080000, A23N0007100000, A23N0012020000	(71)Name of Applicant : <b>1)Indian Council of Agricultural Research- Central Institute of Agricultural Engineering</b> Address of Applicant :Nabibagh, Berasia Road, Bhopal-462038 Madhya Pradesh Madhya Pradesh India <b>2)National Medicinal Plant Board, Ministry of AYUSH</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Debabandya Mohapatra</b>
(33) Name of priority country	:NA	<b>2)Dilip Pawar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 peeling machine for medicinal tuber root crop for removal of pericarp from the surface of the root crops. The abrasive peeling machine (01) includes a drum assembly (02), a feeding hopper (06), a centrally mounted brush assembly (03), a water spray system (04) having a water recirculation, and a discharge spout (07). The drum assembly (02) have the specific abrasions inside the drum with the system of washing and peeling the roots. The machine further has a central shaft driven peeling mechanism having an array of brushes rotating inside the drum (02) and against the abrasive surface of the drum assembly (02). The present invention further provides a process of peeling medicinal root crop with a physical abrasive surface with or without pre-treatment of any chemical using the abrasive peeling machine (01).

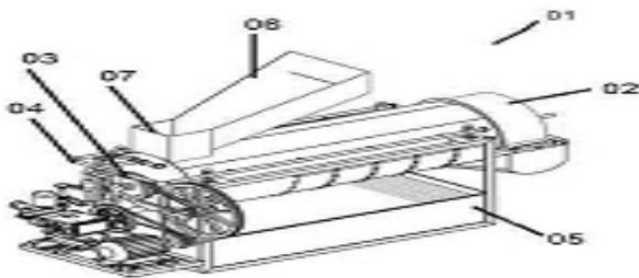


Figure 1

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053646 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN ORODISPERSIBLE PHARMACEUTICAL DOSAGE FORM OF EDOXABAN

(51) International classification :A61K0009000000,  
A61K0031444000,  
C22C0038080000,  
C22C0038160000,  
A61K0045060000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :Intas Pharmaceuticals Ltd. Corporate House, Near Sola Bridge, S. G. Highway, Thaltej, Ahmedabad - 380054, Gujarat, India. Gujarat India

(72)Name of Inventor :

**1)Pérez Pérez, Jesús Manuel**

**2)Márquez Quidiello, María Teresa**

**3)Muñoz Ruiz, Angel José**

**4)Lluch Lores, María Carmen**

**5)Formosa Márquez, Xavier**

(57) Abstract :

An orodispersible pharmaceutical dosage form of edoxaban. ABSTRACT The present invention relates to an orodispersible pharmaceutical dosage form of edoxaban having overall improved characteristics, its process of manufacturing and its use as anticoagulant.

No. of Pages : 97 No. of Claims : 21

(54) Title of the invention : AN ENGINE MOUNT FOR A VEHICLE

(51) International classification :B60K0005120000,  
F16F0013100000,  
B60H0001320000,  
F16F0001387000,  
B62D0033060000

(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 :  
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Hutatma Chowk, Mumbai 400001, Maharashtra, India  
Maharashtra India

(72)Name of Inventor :  
**1)SINGH, Har Govind**  
**2)ROY, Sanchayan**  
**3)CHOUDHARY, Aditya Kant**  
**4)PETALE, Mahendra**  
**5)AMABARDEKAR, Milind**

(57) Abstract :

An engine mount (100) for a vehicle is disclosed. The engine mount (100) comprises a base plate (112), a rubber mount (114) and a boss (116) configured to form an integrated unit (109), wherein said rubber mount (114) is provided with an air cavity (130) configured to act as a resilient means of varying dynamic stiffness. Further, at least one first bracket (108) configured to be securely mounted on said boss (116) of said integrated unit (109) and at least one second bracket (110) configured for accommodating said base plate (112) of said integrated unit (109), wherein said integrated unit (109) is securely mounted on chassis (106) by plurality of fasteners (120) passing through said second bracket (110).

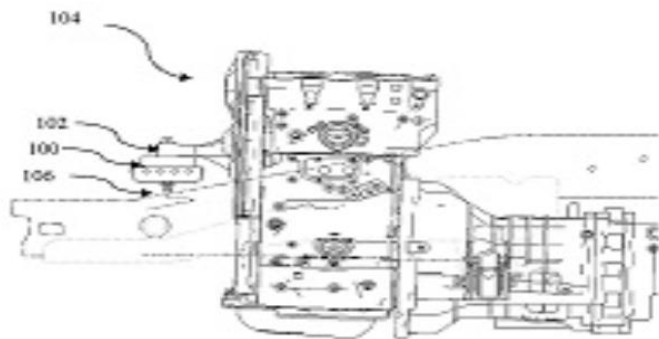


FIGURE 1

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053770 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYNERGISTIC PESTICIDAL FORMULATION OF FLUBENDIAMIDE AND FLONICAMID

(51) International classification	:A01N0041100000, A01N0043400000, A01N0025140000, A01N0047140000, C07C0327580000	(71) <b>Name of Applicant :</b> <b>1)MEGHMANI ORGANICS LIMITED</b> Address of Applicant :Meghmani house, Behind safal profitaire, Corporate road, Prahladnagar, Ahmedabad, GUJARAT, INDIA 380015 Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Ankit Patel</b>
(33) Name of priority country	:NA	<b>2)Natwarlal Patel</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

SYNERGISTIC PESTICIDAL FORMULATION OF FLUBENDIAMIDE AND FLONICAMID ABSTRACT The present invention relates to a synergistic pesticidal formulation of Flubendiamide and Flonicamid. The present invention particularly relates to a synergistic pesticidal formulation comprising Flubendiamide and Flonicamid and at least one inactive ingredient, wherein the said composition is suspension concentrate (SC), Wettable Powder (WP) and Wettable Dispersible Granule (WG) formulation and the process of preparation thereof.

No. of Pages : 30 No. of Claims : 11



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053852 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MATHEMATICAL MODEL FOR WASTEWATER REUSE

(51) International classification	:C02F0001440000, B22D0041060000, C02F0001280000, A61M0005500000, E01C0019100000	(71) <b>Name of Applicant :</b> <b>1)KOMAL P MEHTA</b> Address of Applicant :A 18, DARSHANAM GREENS NEAR BPS 2 NEAR D MART DABHOI WAGODIA RING ROAD, VADODARA, GUJARAT - 390019, INDIA. Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KOMAL P MEHTA</b>
(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 mathematical model for reuse of waste water with given treatment technologies gave way to maintain water balance to a large extent. The implementation of the said model and reuse technologies is carried out through the proof of the above two Claim 1, Meeting water requirement by reuse of waste water by given treatment of industrial waste water and Claim 2, Judging water quality by putting values of parameters in designed mathematical model and save time and money for trial and error in experiments and deciding the treatment to be applied. Reuse of domestic waste water practices in industry can initiate design thinking methodology and lead to implementation for reuse and mathematical model is best available tool to deice the level of treatment from waste water quality.

No. of Pages : 13 No. of Claims : 2

(54) Title of the invention : FREEZE VEGITABLE BAGS (FGB).

(51) International classification :C21D0007130000,  
C21D0009080000,  
C22C0038160000,  
C21D0009000000,  
F25D0025020000

(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

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(72)Name of Inventor :  
**1)MOHITE-PATIL MANASI TANAJIRAO**  
**2)MOHITE-PATIL TANAJIRAO BAPUSO**

(57) Abstract :

During pandemic situation i. e. during corona period going in vegetable market every day is hazardous. Online veggie table suppliers supply veggies to door to door but under minimum purchase condition. Because of that it enforced to purchase more vegetable than every day requirement. This created a need of veggie bag which maintains that for at least 15 to 16 days in a freeze.

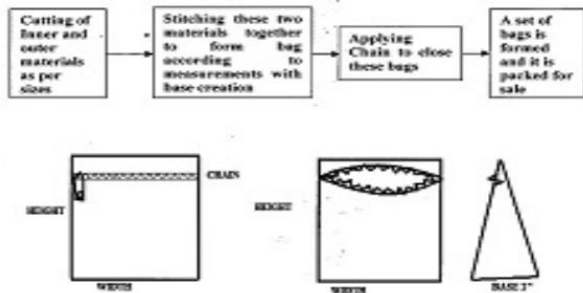


FIG. 01 shows the complete scheme of manufacturing of Freeze Vegetable Bags (FVB)

No. of Pages : 6 No. of Claims : 4

(54) Title of the invention : OPTIMIZED HIGH SECURITY WELD MESH FENCING SYSTEM

(51) International classification :E04H0017160000,  
H01H0003000000,  
B23K0033000000,  
E05B0067380000,  
B21F0027100000

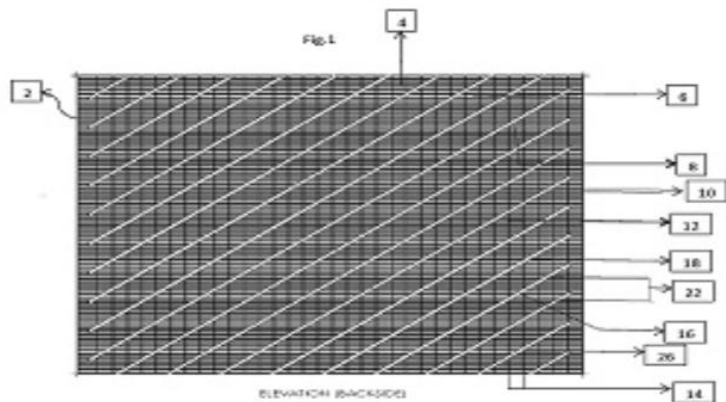
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)A-1 FENCE PRODUCTS COMPANY PRIVATE LIMITED.**  
Address of Applicant :21 I Raju Industrial Estate I, Penkar Pada Dahisar (East) Mumbai - 401104. I INDIA Maharashtra India

(72)Name of Inventor :  
**1)Sundarapandian Srinivasan.**

(57) Abstract :

ABSTRACT 1. The disclosed invention is for a cost effective, optimised, high security weld mesh fencing system. It is comprised of a weld mesh(6) with a first side (Fig.1) and second side (Fig 2) , having a plurality of suitably spaced apart wires in the horizontal direction( 8 ) and also suitably spaced apart rods in the vertical direction(12 ). The space(10.) between the horizontal wires is less than the space(14) between the vertical wires. The horizontal and vertical wires are welded together at substantial points of contact (16) . A plurality of spaced apart hollow tubular members( 18), are placed at angles of less than 80° and greater than 10° in relation to the wires in the vertical direction , across the weld mesh. The hollow members are filled with fire retardant abrasive material.(20) .



No. of Pages : 4 No. of Claims : 15

(54) Title of the invention : THE BUOYANCE LOOP

(51) International classification	:F03D0009320000, G06F0008200000, H04N0013395000, A61F0002500000, H01M0008220000	(71)Name of Applicant : <b>1)Tapobrata Dey</b> Address of Applicant :D. Y. Patil College of Engineering, D. Y. Patil Educational Complex, Pune Sector 29, Nigdi Pradhikaran, Akurdi Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Arnav Arun Khanapurkar</b>
(33) Name of priority country	:NA	<b>2)Subodh Milind Phade</b>
(86) International Application No	:NA	<b>3)Vedant Jagdish Kulkarni</b>
Filing Date	:NA	<b>4)Tapobrata Dey</b>
(87) 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 :

In this work we aim to develop a mechanical system which can be used for energy generation from stagnant water or water which is standing still in any form with high depth. Here after by using some basic principles of mechanical engineering and applying them in a complex practical situation and doing some supportive calculation we are looking forward in the development of this work. This work aims to reduce the power consumption off the traditional elevators and other transportation.

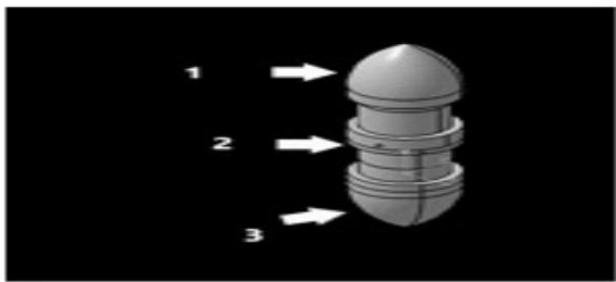


FIG 1

No. of Pages : 34 No. of Claims : 4

(54) Title of the invention : A TIRE HEALTH MONITORING DEVICE AND A METHOD THEREOF

(51) International classification :A61B0005000000,  
A61B0005020500,  
H01H0011000000,  
A61B0005110000,  
A61B0005145000

(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)MINDA STONERIDGE INSTRUMENTS LTD.**  
Address of Applicant :Gut No. 287,291-295,298,285/1,286/1,  
Nanekarwadi Chakan, Tal khed Pune Maharashtra India 410501  
Maharashtra India

(72)Name of Inventor :  
**1)Swapnil Amritkar**

(57) Abstract :

Disclosed herein is a tire health monitoring device 102 and a method thereof. The present disclosure, in particular provides a method and a device that allows the user to know of the tire-wear well in advance in order to take timely decision to replace the tires. To achieve this, the present disclosure continuously monitors the tire pressure of the tires of the vehicle and captures – first – a distance travelled with under-inflated tires and second – a distance travelled with optimally inflated tires. The distance travelled with under-inflated tires is extrapolated by applying a calibration factor 208 in order to obtain an equivalent distance which is greater than the actual distance travelled and results in the same amount of tire-wear as caused on travelling with under-inflated tires. When such equivalent distance approaches the pre-specified lifetime distance value 210 of the tires, a tire-wear alarm indication is provided to the user. [Figure 1]

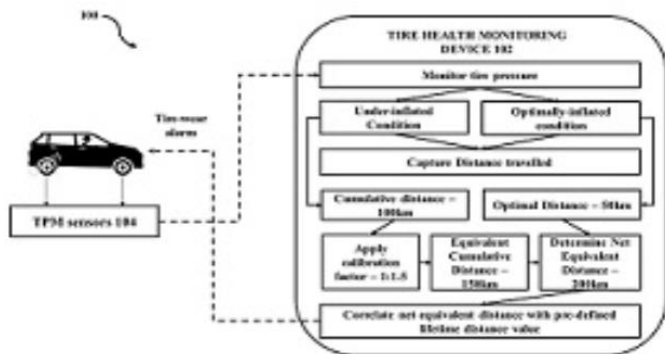


Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121053985 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PROCESS AND CATALYST COMPOSITION FOR PRODUCING LINEAR ALPHA OLEFINS IN HIGH YIELD BY ETHYLENE OLIGOMERIZATION

(51) International classification	:B01J0031140000, C07C0002300000, C07C0002320000, B01J0031180000, B01J0031020000	(71)Name of Applicant : <b>1)Indian Oil Corporation Limited</b> Address of Applicant :IndianOil Bhavan, G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai – 400 051, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)KAUR, Sukhdeep</b>
(33) Name of priority country	:NA	<b>2)RANI, Rashmi</b>
(86) International Application No	:NA	<b>3)SINGH, Gurmeet</b>
Filing Date	:NA	<b>4)SINGH, Dheer</b>
(87) International Publication No	: NA	<b>5)CHOPRA, Anju</b>
(61) Patent of Addition to Application Number	:NA	<b>6)KAPUR, Gurpreet Singh</b>
Filing Date	:NA	<b>7)RAMAKUMAR, Sankara Sri Venkata</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a process for producing linear alpha olefins in high yield carried out by oligomerization of ethylene in the presence of a novel catalyst composition. The catalyst composition includes Zirconium compound, an organoaluminum compound, and at least one Lewis base selected from cyclic and acyclic ethers (i.e., di-n-butyl ether and diethyl ether). The process for oligomerization of ethylene is carried out in an inert organic solvent in the presence of said catalyst composition. The process as disclosed herein provides significantly high activity of the said catalyst composition resulting in high yield of the alpha olefins (95 wt.%) as the product and significantly minimum polymer as by-product. The process provides higher yield of C6-C10 fraction with 60 wt.%.

No. of Pages : 19 No. of Claims : 12

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY IDENTIFYING CROP INFESTATION

(51) International classification	:G06N0003040000, G06N0003080000, G06K0009620000, G06T0007000000, G06K0009000000	(71)Name of Applicant : <b>1)UPL LIMITED</b> Address of Applicant :UPL House, 610 B/2, Bandra Village, Off Western Express Highway, Bandra East, Mumbai 400051, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Prajakta Aher</b>
(33) Name of priority country	:NA	<b>2)Mohammad Shahbaz Hussain</b>
(86) International Application No	:NA	<b>3)Vedansh Kedia</b>
Filing Date	:NA	
(87) 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 :

Disclosed herein is a method and system for automatically identifying a crop infestation. The method comprises receiving, by an identification system (107), user selection (211) on at least one option from a plurality of options provided to the user (101), wherein each of the plurality of options relate to type of the crop infestation (109). Further, the method comprises receiving one or more images of an affected crop and metadata associated with the one or more images of the affected crop. Further, the method comprises verifying each of the one or more images using pre-trained neural network for determining usability of each of the one or more images. Furthermore, the method comprises predicting infected region in the one or more images according to the option selected by the user. Thereafter, the method comprises analyzing the infected region using pre-trained neural network for identifying the crop infestation in the infected region. FIG. 1

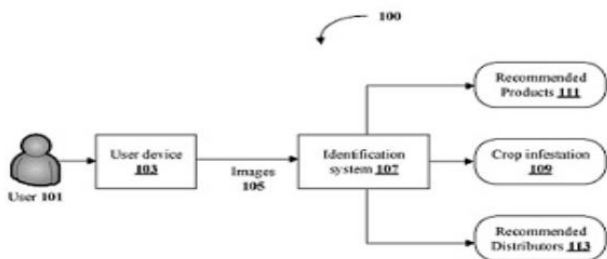


FIG. 1

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121054172 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYNERGISTIC PESTICIDAL FORMULATION OF ACETAMIPRID AND BIFENTHRIN

(51) International classification	:A01N0053000000, A01N0047400000, A01N0025320000, A01N0043900000, A23L0033100000	(71) <b>Name of Applicant :</b> <b>1)MEGHMANI ORGANICS LIMITED</b> Address of Applicant :Meghmani house, Behind safal profitaire, Corporate road, Prahladnagar, Ahmedabad, GUJARAT, INDIA 380015 Gujarat India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)ANKIT PATEL</b>
(33) Name of priority country	:NA	<b>2)NATWARLAL PATEL</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

SYNERGISTIC PESTICIDAL FORMULATION OF ACETAMIPRID AND BIFENTHRIN ABSTRACT The present invention relates to a synergistic pesticidal formulation of Acetamiprid and Bifenthrin. The present invention particularly relates to a synergistic pesticidal formulation comprising Acetamiprid and Bifenthrin and at least one inactive ingredient, wherein the said formulation is Soluble Concentrate (SL) formulation. The present invention provides a synergistic pesticidal formulation comprising Acetamiprid and Bifenthrin which reduces the harmful effects to environment, effective against crop pests and easy to manufacture.

No. of Pages : 21 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121054173 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BIOMATERIALS FROM FUNGI

(51) International classification :C12N0015800000,  
A01G0018640000,  
A61L0027520000,  
A61L0027340000,  
A61L0027260000

(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 :

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Address of Applicant :INSTITUTE OF CHEMICAL  
TECHNOLOGY(DEEMED UNIVERSITY) NATHALAL  
PARIKH MARG, MATUNGA, MUMBAI-400019,  
MAHARASHTRA, INDIA. Maharashtra India

(72)Name of Inventor :

**1)RESHAMWALA SHAMLAN MOHAMMED SHAFI  
2)TEWARI SRISHTI  
3)KALE RAVINDRA DHONDIBA**

(57) Abstract :

The present invention relates to novel biomaterials derived from fungi that can be used as such or in conjunction with other materials to provide functional or aesthetic properties. Fungi are cultivated to obtain fungal biomass that can be processed to produce durable material such as leather substitutes.

No. of Pages : 8 No. of Claims : 10

(54) Title of the invention : CONDUCTIVE COMPOSITION

(51) International classification	:A61K0008990000, C08G0073020000, C09D0005240000, H01B0001160000, C11C0003100000	(71)Name of Applicant : <b>1)CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY</b> Address of Applicant :Charotar University of Science and Technology, CHARUSAT Campus, Changa Gujarat India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Bragadish Iyer</b>
(33) Name of priority country	:NA	<b>2)C. K. Sumesh</b>
(86) International Application No	:NA	<b>3)Komal Parmar</b>
Filing Date	:NA	<b>4)Pratik Pataniya</b>
(87) 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: CONDUCTIVE COMPOSITION Figure accompanying with abstract: Figure 2 Present invention is about a conductive composition developed from the exopolysaccharide which is derived from the microorganism. A composition of the exopolysaccharide and conductive material presents an excellent replacement of traditionally used soldering technique for connecting electric components.

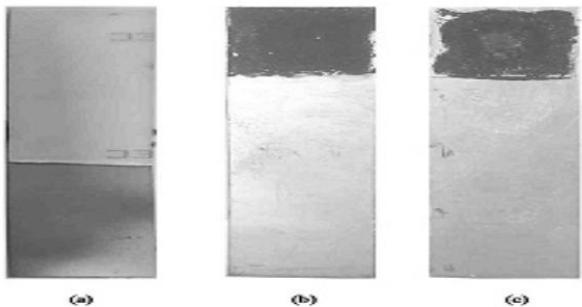


Fig 2

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

(54) Title of the invention : A DE-AERATION DEVICE FOR A COOLING SYSTEM OF A VEHICLE

(51) International classification :B60L0058260000,  
B60H0001320000,  
H01M0010625000,  
B60L0001000000,  
B01D0019000000

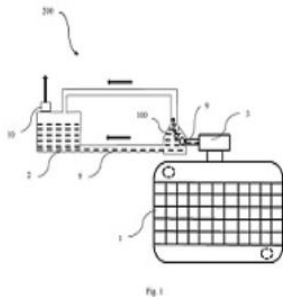
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :NA  
Filing Date :NA  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)TATA MOTORS LIMITED**  
Address of Applicant :Bombay House, 24 Homi Mody Street,  
Hutatma Chowk, Mumbai. Maharashtra 400001, India  
Maharashtra India

(72)Name of Inventor :  
**1)Deepak Suryakant Kulkarni**  
**2)Vishva Deepak**  
**3)Aashish Prabhakar Gulhane**  
**4)Shrikant Bhagwanrao Undre**  
**5)Santosh Kanhoba Katkar**

(57) Abstract :

The present disclosure discloses a de-aeration device (100) for an atmospheric recovery tank type cooling system (200) of a vehicle. The de-aeration device includes a body and a first port (6) defined in the body fluidly connectable to a radiator (1). The first port (6) is configured to channelize fluid between the body and the radiator such that the fluid received from the radiator (1) is de-aerated in the body. Further, the de-aeration device (100) includes a second port (7) defined in the body fluidly connectable to a reservoir. The second port (7) is configured to channelize the fluid between the body and the reservoir. Furthermore, the first port (6) of the de-aeration device is defined at a location higher than the second port to aid in de-aerating the fluid in the body. The de-aeration device removes air trapped in the cooling system and prevents incomplete filling of the radiator. Figs 1 and 3a are the representative figures.



No. of Pages : 19 No. of Claims : 15

(54) Title of the invention : A SINGLE STAGE PROCESS FOR PRODUCTION OF HYDROGEN ENRICHED GAS

(51) International classification :F02D0019020000,  
F02M0021020000,  
F02D0019060000,  
B01J0023440000,  
B01D0053000000

(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 :  
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Address of Applicant :IndianOil Bhavan, G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai - 400051, Maharashtra, India  
Maharashtra India

(72)Name of Inventor :  
**1)CHAUDHARI, Chinmay Abhijit**  
**2)CHUGH, Sachin**  
**3)KARUPPANNAN, Mohanraju**  
**4)SUNDARRAMAN, Meenakshi**  
**5)SONKAR, Kapil**  
**6)SHARMA, Alok**  
**7)KAPUR, Gurpreet Singh**  
**8)RAMAKUMAR, Sankara Sri Venkata**

(57) Abstract :

The present invention discloses a single stage energy efficient process for production of hydrogen enriched/mixed gas at low temperature. More particularly, the present invention discloses a single stage energy efficient process for production of hydrogen enriched compressed natural gas (CNG) or LPG or biogas at low temperature.

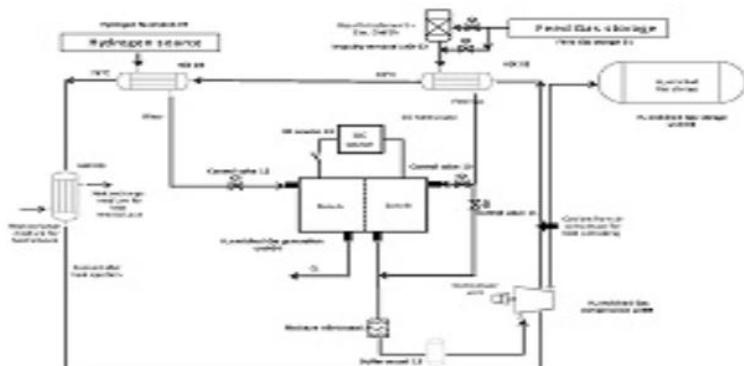


Figure. 1

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121054323 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF IMPROVING PLANT GROWTH

(51) International classification	:A01G0007040000, C05D0009000000, A01N0047400000, C05F0011080000, C05F0009000000	(71)Name of Applicant : <b>1)UPL LIMITED</b> Address of Applicant :UPL House, 610 B/2, Bandra Village, off Western Express Highway, Bandra-East, Mumbai 400 051, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)NARAYANASAMY, Rajapandian Ramanathan</b>
(33) Name of priority country	:NA	<b>2)GUPTA, Brijesh Kumar</b>
(86) International Application No	:NA	<b>3)NAGANUR, Sunil</b>
Filing Date	:NA	<b>4)SANGLE, Prabhakar</b>
(87) 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 IMPROVING PLANT GROWTH The present invention relates to a method of improving growth of plants and/or improving germination of plants and/or seed vigour by applying a combination of flonicamid and one or more agrochemicals to said plant or plant propagation material or locus thereof. The present invention also relates to an agrochemical combination comprising flonicamid and one or more agrochemicals. More particularly, the present invention also relates to an agrochemical composition thereof.

No. of Pages : 63 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121054324 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : STABLE AGROCHEMICAL COMPOSITION, PROCESS AND METHOD OF USE THEREOF

(51) International classification	:A01N0057280000, C01B0039060000, A61B0050300000, C07D0307330000, A01N0025020000	(71) <b>Name of Applicant :</b> <b>1)UPL LIMITED</b> Address of Applicant :UPL House, 610 B/2, Bandra Village, off Western Express Highway, Bandra-East, Mumbai 400 051, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KINI, Prashant Vasant</b>
(33) Name of priority country	:NA	<b>2)PANDEY, Siddharth</b>
(86) International Application No	:NA	<b>3)ROY SARKAR, Supratim</b>
Filing Date	:NA	
(87) 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 an agrochemical composition, a process for preparation and method of using the same thereof. The present invention also provides a method for defoliating plants using said composition.

No. of Pages : 32 No. of Claims : 15

(54) Title of the invention : COMPOSITION AND PROCESS FOR MANUFACTURING DESIGNER CORRUGATED ROOFING SHEETS WITH COLOR USING STAINS

(51) International classification :C08L0031040000,  
C09D0005020000,  
E04D0003360000,  
F16C0033420000,  
C04B0028040000

(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 :  
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Address of Applicant :39/D, Gultekdi, J. N. Road, Pune -  
411037, Maharashtra, India Maharashtra India

(72)Name of Inventor :  
**1)Satyen Patel**

(57) Abstract :

Composition and Process for Manufacturing Designer Corrugated Roofing Sheets with Color Using Stains Abstract Disclosed are a composition and a process for manufacturing designer corrugated roofing sheets with color using stains. The designer corrugated roofing sheets with color using stains manufactured from the composition and by the process of the present invention are non-corrosive, fire retardant and have longer life and are capable of withstanding extreme weather conditions, reduce drumming sounds during rains and do not get affected by acid rains. The designer corrugated roofing sheets with color using stains have a pleasant look of teak wood finish and naturally add beauty to existing roofs anywhere and anytime without compromising with the safety and durability of the roofs. Figure 1

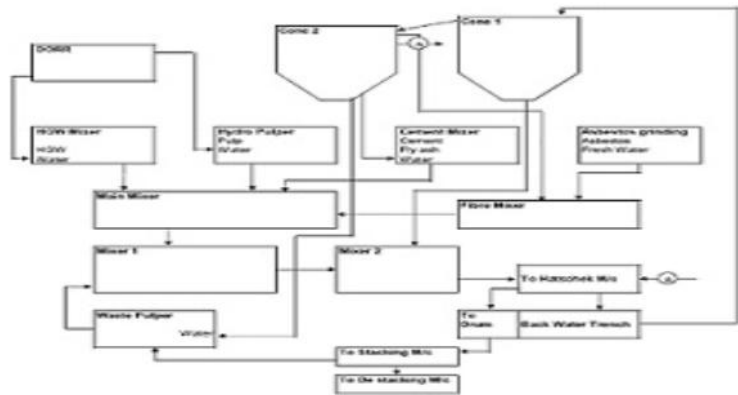


Figure 1

No. of Pages : 18 No. of Claims : 7

(54) Title of the invention : ANTI-VIRAL COMPOSITION FOR PATIENTS WITH MILD TO SEVERE SARS COV-2

(51) International classification :A61K0039215000,  
C01B0039460000,  
C07F0009440000,  
C12N0015500000,  
C07D0213810000

(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

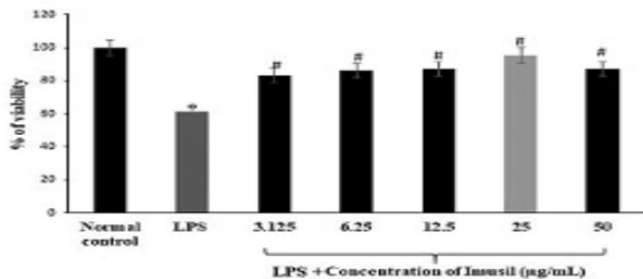
(71)Name of Applicant :  
**1)Mr Rajesh Kumar Khatri**  
Address of Applicant :Office No. 303, A- Wing, Naman  
Midtown, Senapati Bapat Marg, Elphinstone Road, Mumbai  
Maharashtra India

(72)Name of Inventor :  
**1)Mr. Tariq Jagmag**  
**2)JAYESH MANGATRAM TILWANI**

(57) Abstract :

Composition and method of preparation for plant-based product for treatment of various viral infections including SARS CoV-2. In particular, the invention is concerned with composition of oral anti-viral product containing picrorhiza kurroa, tinospora cordifolia and emblica officinalis. The composition of the present invention relates to treatment of mild to severe Coronavirus.

Fig. 1



No. of Pages : 26 No. of Claims : 4



(54) Title of the invention : A SYSTEM AND A METHOD FOR GEOTHERMAL HEATING AND COOLING BASED ON ADVECTION

(51) International classification :F24F0005000000,  
F24D0019100000,  
F24F0003060000,  
F28D0007000000,  
F25B0030060000

(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 :  
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Address of Applicant :SHREERANG CHS, C21, CD104,  
NEAR VRINDAVAN SOCIETY, THANE WEST 400601,  
MAHARASHTRA, INDIA Maharashtra India

(72)Name of Inventor :  
**1)MANDAR SHRIDHAR KAPREKAR**

(57) Abstract :

An advection based geothermal system is disclosed herein. The system comprises plurality of supply wells (200) situated below the ground level (GL); plurality of geothermal apparatus (300) within each of the supply wells (200); at least one diffusion well (600) for discharge of water received from the enclosure (1300); at least one auxiliary cooling apparatus (2100) within the enclosure (1300); and plurality of heat pumps (1100) connected to the geothermal apparatus (300) & the auxiliary cooling apparatus (2100) to provide cooling & heating within the enclosure (1300).

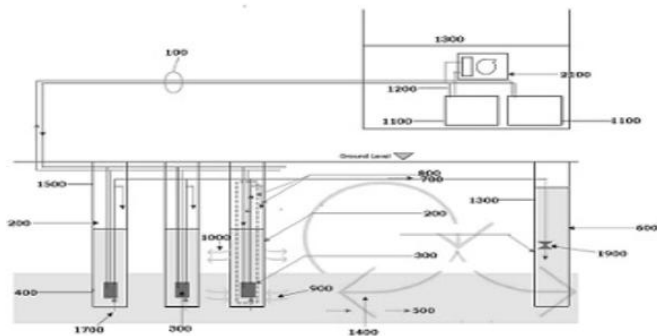


Figure 1

No. of Pages : 36 No. of Claims : 26

(54) Title of the invention : AN INTELLIGENT SECURITY SYSTEM AND A METHOD THEREOF

(51) International classification	:H04N0007180000, G08B0013196000, H04L0009080000, H04N0005225000, H04N0019176000	(71) <b>Name of Applicant :</b> <b>1)PUNTAMBEKAR, Nilesh Vidyadhar</b> Address of Applicant :C-1103, Royal Court, Thergaon, Pune-411033, Maharashtra, India Maharashtra India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PUNTAMBEKAR, Nilesh Vidyadhar</b>
(33) Name of priority country	:NA	<b>2)PUNTAMBEKAR, Ved Nilesh</b>
(86) International Application No	:NA	<b>3)PUNTAMBEKAR, Avani Nilesh</b>
Filing Date	:NA	
(87) 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 INTELLIGENT SECURITY SYSTEM AND A METHOD THEREOF** The present disclosure relates to an intelligent security system (100). The system (100) includes a memory (125), an image capturing unit (105), a processing unit (110) and an actuating unit (140). The memory (125) store a pre-trained neural network model. The image capturing unit (105) is configured to sequentially capture and generate video frames of the surrounding environment in real-time. The processing unit (110) cooperate with the image capturing unit (105) to receive the video frames and further configured to implement the pre-trained neural network to generate a plurality of output frames (107) containing one or more faces. The actuating unit (140) receive the output frames and further configured to cooperate with the memory (125) to use pre-trained neural network model to identify presence of an unauthorised face present in the output frames to actuate a preventive action.

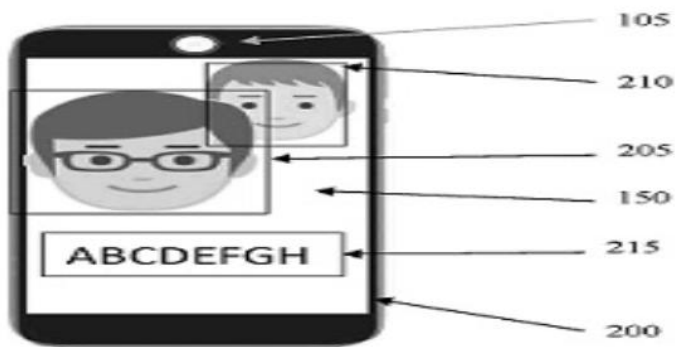


Figure 2B

No. of Pages : 24 No. of Claims : 9

(54) Title of the invention : SYSTEMS AND METHODS FOR PROVIDING CONTACTLESS PAYMENTS AND INSURANCE COVERS THROUGH A WEARABLE DEVICE

(51) International classification	:G06Q0040080000, G06Q0020320000, G06F0001160000, A61B0005000000, G06F0003010000
(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 :**  
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 Address of Applicant :101, Satyam Tower, Sanghi Industrial Estate, Near Wasan Motors, Govandi (E), Mumbai, 400088 India Maharashtra India

(72)**Name of Inventor :**  
**1)Vishal Gondal**  
**2)Sachin Janghel**  
**3)Abhishek Kumar Sharma**

(57) Abstract :

A method for providing contactless payments and insurance covers through a wearable device, includes the steps of, providing the wearable device to be worn by a user, and the wearable device includes at least one processor and a contactless payment chip. In accordance with an embodiment of the present invention, the method further includes the steps of, receiving, via an input module of the wearable device, an input from the user to initiate at least one payment via the contactless payment chip; processing, via a payment module of the wearable device, the at least one payment in response to the input received from the user; and, providing, via an insurance module, a custom insurance cover to the user based on health related parameters of the user.

4

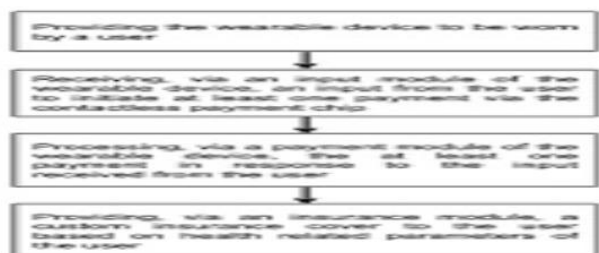


Fig. 1

No. of Pages : 15 No. of Claims : 7

(54) Title of the invention : METHOD AND SYSTEM FOR DETECTING FUEL THEFT IN A VEHICLE

(51) International classification :G07C0005080000,  
B60R0025100000,  
G07C0005000000,  
G01F0009000000,  
H04W0012120000

(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

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Address of Applicant :Bombay House, 24 Homi Mody Street,  
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**2)APURBO KIRTY**  
**3)SAURABH BISEN**  
**4)TUSHAR VINAYAK GAWADE**  
**5)HEMANT APPA BHAGATE**  
**6)ADITYA ANAND**  
**7)DHANANJAY MALHAR TARE**

(57) Abstract :

The present disclosure relates to field of automobile engineering that discloses method and system for detecting fuel theft in vehicle. An Anti-Fuel Theft (AFT) system associated with vehicle, detects values of one or more gradient parameters for vehicle based on processed telemetry data received as part of one or more input data packets. One or more average base fuel level and one or more average contender fuel levels for each of one or more connected fuel tanks are determined based on processed telemetry data. Further, AFT system sends fuel theft alert to user device when difference exceeds predetermined fuel level threshold and when deviation of values of one or more gradient parameters from predetermined gradient threshold is within limit. The present disclosure provides advantage that AFT system uses accumulated data to accurately determine fuel consumption and fuel level related parameters. This in turn reduces generation of false fuel theft alerts. FIG.2

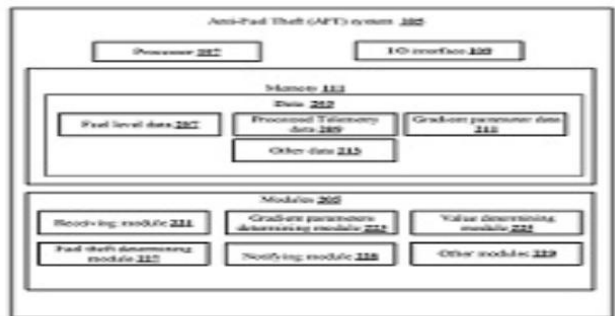


FIG.2

No. of Pages : 38 No. of Claims : 22

(54) Title of the invention : Methods and systems for dynamic generation of non-linear gradient profiles in a microfluidic gradient generator

(51) International classification :B01L0003000000,  
G01N0030340000,  
G05B0013040000,  
G06T0005000000,  
G01N0030900000

(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)Indian Institute of Technology Bombay**  
Address of Applicant :IIT Bombay, Powai, Mumbai,  
Maharashtra, India - 400076 Maharashtra India  
**2)Department of Biotechnology**

(72)Name of Inventor :  
**1)Gauri Rshikesan Paduthol**  
**2)Amit Agrawal**  
**3)Debjani Paul**  
**4)Teji Shenne Korma**

(57) Abstract :

ABSTRACT Methods and systems for dynamic generation of non-linear gradient profiles in a microfluidic gradient generator Embodiments herein disclose a two-inlet universal microfluidic gradient generator capable of generating gradient profiles of the functional form  $x^p$  in the same device by controlling only the inlet flow rates. Embodiments herein disclose an analytical model to predict the inlet flow rates needed to generate a user-specified gradient profile at the outlet 104. FIG. 1A

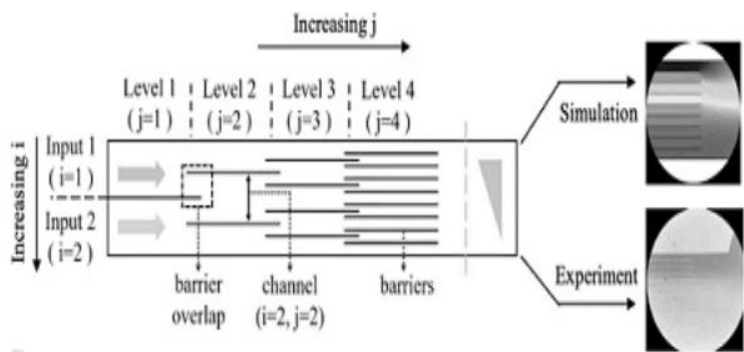


FIG. 1A

No. of Pages : 43 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202121054594 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : BIOACTIVE MICROSPHERE AND METHOD FOR PREPARATION THEREOF

(51) International classification	:A61K0009160000, A61L0031040000, A61K0051120000, C03C0012000000, B01J0035080000	(71)Name of Applicant : <b>1)D TECHNOLOGY PRIVATE LIMITED</b> Address of Applicant :Unit No. 19, Building No. F-8, Bhumi world Industrial Park, Mumbai Nashik highway, Pimplas, Thane, Mumbai – 421302, India Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)BHAJEKAR, Deepa Vidyadhar</b>
(33) Name of priority country	:NA	<b>2)INGLE, Subhash Ganesh</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 BIOACTIVE MICROSPHERE AND METHOD FOR PREPARATION THEREOF The present disclosure discloses a method for preparing a bioactive microsphere. The method comprises the blending of a lipophilic phase, comprising a first emulsifier 5 and a first bioactive with an aqueous phase comprising a second emulsifier and water optionally with second bioactive to form a globular carrier and wherein the lipophilic phase and the aqueous phase is in the weight ratio range of 1:0.5 to 1:12. The globular carrier is further dispersed in a polymer to obtain a polymeric dispersion, and further the solidification of the polymeric dispersion yields the bioactive microsphere. The 10 present disclosure also discloses a bioactive microsphere obtained by the method as disclosed herein, and an enriched food comprising said bioactive microsphere.

No. of Pages : 40 No. of Claims : 21

(54) Title of the invention : A SCENTED APPENDAGE FOR WEARABLE ACCESSORIES

(51) International classification :G11B0005550000,  
H02N0001000000,  
A61M0016000000,  
A61B0005000000,  
A61M0035000000

(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:  
Filed on :01/01/1900  
(62) Divisional to Application Number :NA  
Filing Date :NA

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G. B. Shah College Road, Vasna, Ahmedabad – 380007, Gujarat  
Gujarat India

(72)Name of Inventor :  
**1)Jaimin Mahendrakumar Meghani**

(57) Abstract :

The various embodiments of the present invention disclose a scented appendage for personal wearables. The scented appendage comprises a detachable housing and a scent unit. The detachable housing is attached to an artistic slot created in the personal wearable. The scent unit is housed in the detachable housing. a microactuator. The microactuator is a clip-like structure connected to the detachable housing. The microactuator moves the detachable housing in-and-out of the personal wearable through a press mechanism.

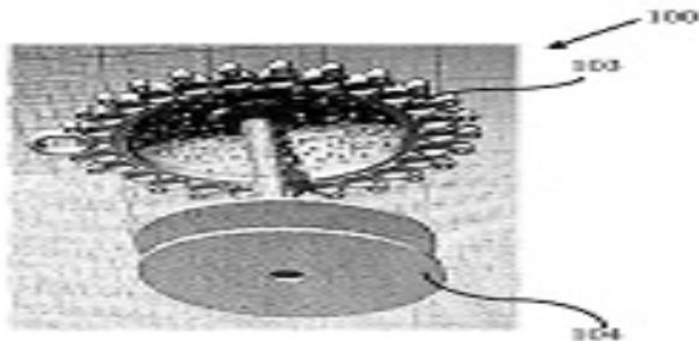


FIG. 1a

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202124057977 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PRODUCTION METHOD OF A-OXO2-FURANACETIC ACID

(51) International classification	:C02F0001720000, C01B0021500000, D06P0001280000, A61F0013150000, C07C0253140000	(71)Name of Applicant : <b>1)ILS INC.</b> Address of Applicant :Landic Kanda Bldg., 6, Kandasuda-cho 2-chome, Chiyoda-ku, Tokyo 101-0041 JAPAN Japan
(31) Priority Document No	:JP2021-190102	(72)Name of Inventor :
(32) Priority Date	:24/11/2021	<b>1)KAWASHIMA, Mikako</b>
(33) Name of priority country	:Japan	<b>2)MATSUMOTO, Yoichi</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 provide a production method of a-oxo-2-furanacetic acid of medical intermediate can be produced without using sodium nitrite. [Solution] Method for producing a-oxo-2-furanacetic acid from furfural by oxidizing with a manganese-base or chlorine-base oxidizing agent, chlorinating, cyanation and hydrolysis.

No. of Pages : 13 No. of Claims : 2



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202124057979 A

(19) INDIA

(22) Date of filing of Application :13/12/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PURIFICATION METHOD OF Z A METHOXYIMINO 2 FURANACETIC ACID AMMONIUM SALT

(51) International classification	:B01J0023280000, C22B0011060000, C23F0001340000, A61K0038170000, C12P0013040000	(71) <b>Name of Applicant :</b> <b>1)ILS INC.</b> Address of Applicant :Landic Kanda Bldg., 6, Kandasuda-cho 2-chome, Chiyoda-ku, Tokyo 101-0041 JAPAN Japan
(31) Priority Document No	:JP2021-190103	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/11/2021	<b>1)TAKEHARA, Jun</b>
(33) Name of priority country	:Japan	<b>2)TAKIGAWA, Teiji</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 isolate and purify the Z-a-methoxyimino-2-furanacetic acid ammonium salt of the medical intermediate efficiently.

[Solution] Purification method of Z-a-methoxyimino-2-furanacetic acid ammonium salt by washing a Z-a-methoxyimino-2-furanacetic acid ammonium salt containing E isomer of impurity with a solvent without completely dissolving to remove the E isomer.

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

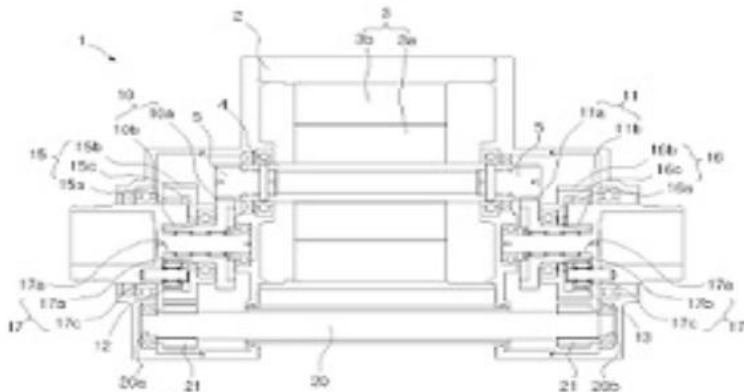
(54) Title of the invention : TRANSAXLE FOR CV JOINT INTEGRATE CARRIER

(51) International classification	:B60K0017160000, B60K0017100000, B60K0001000000, F16H0057028000, B60K0017040000	(71)Name of Applicant : <b>1)JAESUNG TECH CO., LTD.</b> Address of Applicant :1147-2, Hallim-ro, Jinyeong-eup, Gimhae-si, Gyeongsangnam-do, 50854, Republic of Korea Republic of Korea
(31) Priority Document No	:10-2021-0163042	(72)Name of Inventor : <b>1)YOO Soon Gi</b>
(32) Priority Date	:24/11/2021	
(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 :

A driving motor is installed at the middle of an apparatus and a motor shaft is formed at the left and right sides, thereby transmitting reducers installed at the left and right sides, respectively. A differential device has a differential shaft directly engaged with the reducer at one side and the reducer at the other side is changed in rotation direction through an idle gear and then the idle gear is engaged with the differential shaft, thereby adjusting and transmitting differential of the left and right reducers to a CV joint. A side of the CV joint is provided as a carrier of a reducer composed of planetary gears. In the configuration described above, a motor having relatively large weight is installed at the center of the apparatus and the reducers installed at both sides of the motor are the same, so the center of gravity of the transaxle is stably configured by the motor. The motor shaft and the CV joint are configured eccentrically rather than concentrically, so it is possible to secure a vehicle height that can protect the motor from flooding, etc. by positioning the motor higher than the CV joint for output. The transaxle can be used for vehicles for specific purposes such as farming machines requiring a space at the centers of both driving wheels. Since power is transmitted to reducers at both sides, respectively, with the motor therebetween, force is divided, so it is possible to make reducers smaller than the gears of transaxles that are used in the related art. Further, since the gears of the left and right reducers except for a ring gear of a reducer and an idle gear for connecting a differential shaft and the reducer are the same, there is an advantage that the burden of stock decreases. FIG. 1

FIG. 1



No. of Pages : 25 No. of Claims : 5

(54) Title of the invention : MIST HEAD WITH IMPACT NOZZLES

(51) International classification	:A61B0090000000, A61B0005000000, H01L0027120000, F01D0005180000, A61B0017000000	(71)Name of Applicant : <b>1)TELESTO SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA</b> Address of Applicant :Ludwinowska 17 street, 02-856 Warsaw, Poland.
(31) Priority Document No	:W. 130414	(72)Name of Inventor :
(32) Priority Date	:24/11/2021	<b>1)LADA, Zygmunt</b>
(33) Name of priority country	:Poland	<b>2)KACZOR, Waldemar</b>
(86) International Application No	:NA	<b>3)GBIORCZYK, Sebastian</b>
Filing Date	:NA	
(87) 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 mist head according to the utility model has a body (1) with a central channel and a front part (2) placed on the body with a circumferential groove and pairs of channels (4, 5), the axes of which intersect at an angle outside the body (1). The channels constitute the impact nozzles, wherein each first channel (4) of the impact nozzle pair is disposed on the angular wall of the groove of the front part (2) obliquely with respect to the axis of the central channel of the body (1), towards the outside of the head, and each second channel (5) of the impact nozzle pair is located on the front part (2) of the head parallel to the axis of the central channel of the body (1). Figure 3 is the representative figure.

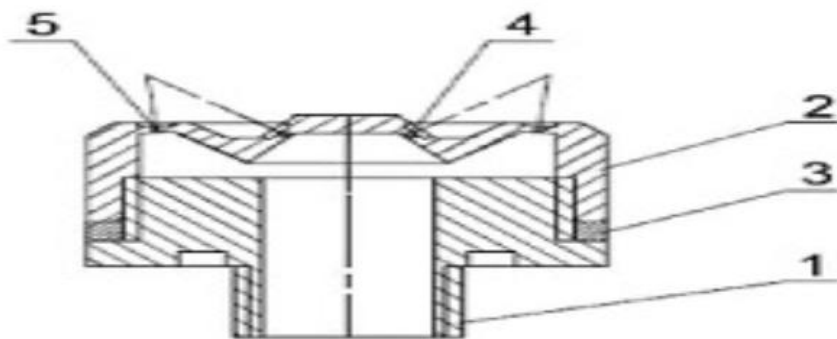


Fig. 3

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

(54) Title of the invention : MOLECULAR DIAGNOSTIC ASSAY SYSTEM

(51) International classification :G01N 35/00, G01N 35/10, G01N 33/487, B01L 3/00

(31) Priority Document No :62/196,845

(32) Priority Date :24/07/2015

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2016/043763

Filing Date :22/07/2016

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :201827006770

Filed on :22/02/2018

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**1)DORITY, Doug**

**2)PHAN, Tien**

**3)FROMM, David**

**4)CASLER, Rick**

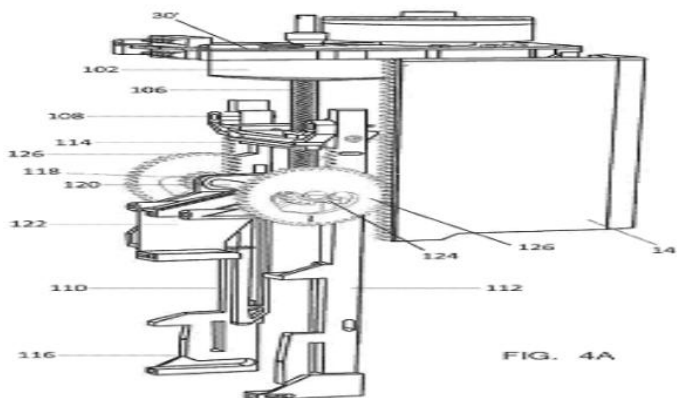
**5)DICKENS, Dustin**

**6)MORITA, Stuart**

**7)PICCINI, Matthew**

(57) Abstract :

Improved sub-assemblies and methods of control for use in a diagnostic assay system adapted to receive an assay cartridge are provided herein. Such sub-assemblies include: a brushless DC motor, a door opening/closing mechanism and cartridge loading mechanism, a syringe and valve drive mechanism assembly, a sonication horn, a thermal control device and optical detection/excitation device. Such systems can further include a communications unit configured to wirelessly communicate with a mobile device of a user so as to receive a user input relating to functionality of the system with respect to an assay cartridge received therein and relaying a diagnostic result relating to the assay cartridge to the mobile device.



No. of Pages : 175 No. of Claims : 76

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327007591 A

(19) INDIA

(22) Date of filing of Application :06/02/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : SILICONE FORMULATION COMPRISING AN OXIME CROSSLINKER, CURED SILICONE FORMULATION AND USES THEREOF

(51) International classification :C08L 83/04, C09J  
183/04  
(31) Priority Document No :20190862.1  
(32) Priority Date :13/08/2020  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2021/072390  
Filing Date :11/08/2021  
(87) International Publication No :WO 2022/034141  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)SOUDAL N.V.**  
Address of Applicant :Everdongenlaan 18 B-2300 Turnhout  
Belgium  
(72)Name of Inventor :  
**1)GEBOES, Peter**  
**2)WOUTERS, Dominique**  
**3)DE BACKER, Evelien**

(57) Abstract :

The present invention relates to a silicone formulation comprising an oxime silane crosslinker comprising 5-methyl-3-heptanone oxime which exhibits significantly improved early cracking behaviour and/or skin formation time compared to silicone formulations employing conventional oxime silane crosslinkers, the corresponding cured silicone formulation, uses of the cured silicone formulation and uses of such oxime crosslinkers in the area of silicone formulations. The present invention also relates to an oxime crosslinker.

No. of Pages : 43 No. of Claims : 15

(54) Title of the invention : MAPPING OF A CRANE SPREADER AND A CRANE SPREADER TARGET

(51) International classification :B66C 13/46, B66C 13/48, B66C 17/20, G01C 15/00, G01S 17/894

(31) Priority Document No :2020902337

(32) Priority Date :07/07/2020

(33) Name of priority country :Australia

(86) International Application No :PCT/AU2021/050724  
Filing Date :07/07/2021

(87) International Publication No :WO 2022/006629

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

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

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)HERAT, Shanil Mario**  
**2)PASQUALE, Andrew**  
**3)LOOI, En-Shan**

(57) Abstract :

The present invention relates to a method for the mapping of a crane spreader and a crane load target, the method comprising the steps of: capturing scan data using one or more backreach range scanning sensors located on a backreach area of the crane; capturing scan data using one or more boom range scanning sensors located on the crane boom; and aligning and combining the backreach scan data and the boom scan data to generate a mapping of the crane spreader and the crane load target.

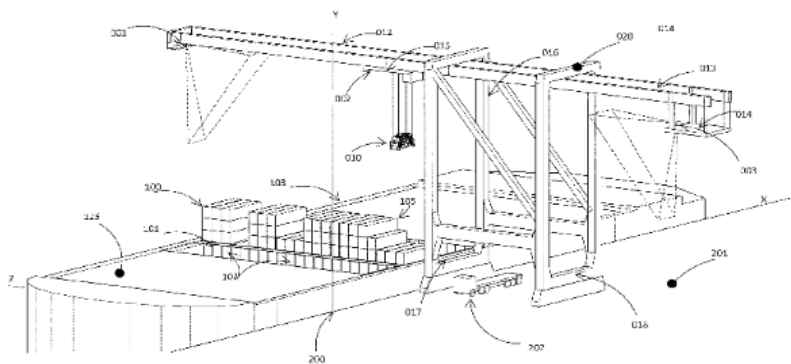


Figure 1: Apparatus preferred embodiment view 1.

No. of Pages : 34 No. of Claims : 20

(54) Title of the invention : OPTOMECHANICAL METHOD TO MEASURE ARTERIAL PULSE AND ASSESS CARDIOPULMONARY HEMODYNAMICS

(51) International classification :A61B 5/022, A61B 5/021, A61B 5/024, A61B 5/026, A61B 17/135

(31) Priority Document No :63/063482

(32) Priority Date :10/08/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/045368  
Filing Date :10/08/2021

(87) International Publication No :WO 2022/035841

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

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

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)ADELSON, Edward H.**  
**2)BISWAS, Abhijit**  
**3)THANIKACHALAM, Mohan**

(57) Abstract :

An optomechanical sensor system is provided. The system can include a patient-worn surface displacement system comprising a deformable surface configured to be positioned against the patient adjacent to a superficial artery thereof, a plurality of optical markings disposed on the deformable surface, and an actuator configured to apply a pressure to hold the surface displacement system against the patient such that spatiotemporal movement of the superficial artery causes corresponding movement of the deformable surface and the plurality of optical markings. The system further includes an optical system which includes an imaging system, illumination, and with or without mirrors configured to visualize the plurality of optical markings at an oblique angle. The system determined the spatiotemporal movement of the superficial artery based on the received plurality of images and determine a cardiopulmonary parameter associated with the patient based thereon.

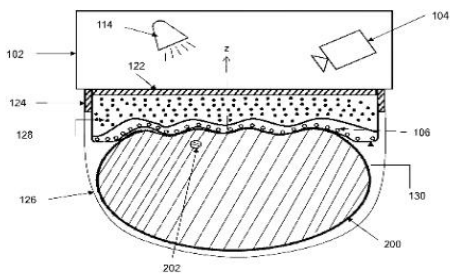


FIG. 2

No. of Pages : 24 No. of Claims : 20

(54) Title of the invention : SYSTEM FOR AUGMENTED REALITY

(51) International classification :H04N 9/31, G06T 7/80, G06F 3/01  
 (31) Priority Document No :102020000017653  
 (32) Priority Date :21/07/2020  
 (33) Name of priority country :Italy  
 (86) International Application No :PCT/IB2021/056551  
 Filing Date :20/07/2021  
 (87) International Publication No :WO 2022/018635  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
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 (72)Name of Inventor :  
**1)CASCINI, Gaetano**  
**2)CARUSO, Giandomenico**  
**3)BECATTINI, Niccolò**  
**4)MOROSI, Federico**

(57) Abstract :

It is disclosed an augmented reality system comprising at least one projector (2), a detection surface (3) and at least one marker (4). The projector (2) is configured to project a digital image onto a physical object (O) inside a projection volume (P). The at least one marker (4) is couplable to the physical object (O) and it is adapted to engage the detection surface (3) in at least one point of contact, thus generating a detection signal representative of one or more properties of the point of contact. The detection surface (3) is configured to identify in use an absolute position and an orientation of the physical object (O) coupled to the marker (4) inside the projection volume (P) as a function of the detection signal.

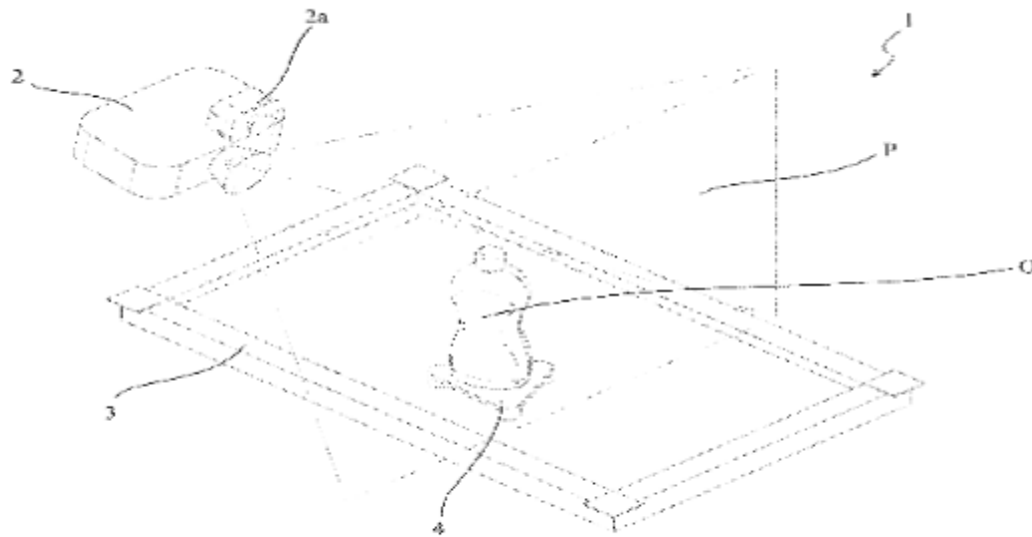


Fig. 1A

No. of Pages : 14 No. of Claims : 15



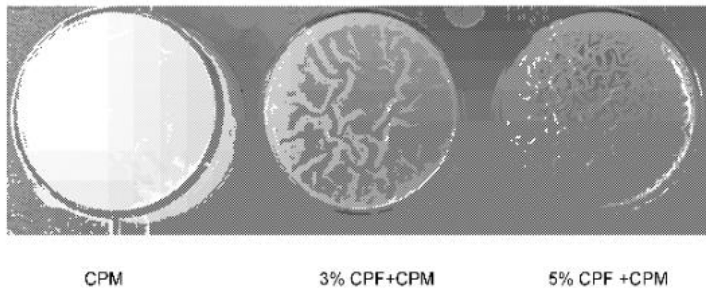
(54) Title of the invention : METHODS OF CULTURING PROBIOTIC BACILLI

(51) International classification	:A01N 63/22, A23L 13/40, C12P 1/04, C12R 1/00, C12R 1/07	<b>(71)Name of Applicant :</b> <b>1)THE STATE OF ISRAEL, MINISTRY OF AGRICULTURE &amp; RURAL DEVELOPMENT, AGRICULTURAL RESEARCH ORGANIZATION (ARO) (VOLCANI INSTITUTE)</b> Address of Applicant :Volcani Center, P.O. Box 15159, 7528809 Rishon-LeZion Israel <b>2)YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD.</b> <b>(72)Name of Inventor :</b> <b>1)SHEMESH, Moshe</b> <b>2)GALILI, Shmuel</b> <b>3)REIFEN, Ram</b>
(31) Priority Document No	:63/053651	
(32) Priority Date	:19/07/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IL2021/050880	
Filing Date	:19/07/2021	
(87) International Publication No	:WO 2022/018724	
(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 culturing bacteria of the Bacilli class is disclosed. The method comprises: (a) adding the bacteria to a medium comprising pasteurized starch fibers of a legume of a leguminous plant, and (b) culturing the bacteria under conditions that promote generation of a biofilm of the bacteria on the starch fibers.

FIG. 11



No. of Pages : 25 No. of Claims : 24

(54) Title of the invention : AN INFLATABLE STORAGE CONTAINER

(51) International classification :B65D 88/16, E04H 7/24  
(31) Priority Document No :2010799.1  
(32) Priority Date :14/07/2020  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2021/051816  
Filing Date :14/07/2021  
(87) International Publication No :WO 2022/013557  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)DEPLOY TECH LTD**  
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(72)Name of Inventor :  
**1)PRIETO, Paul Vinicio Mendieta**

(57) Abstract :

An inflatable storage container (100) for liquids or other bulk materials comprises a first portion (5) that defines a base and a second portion (4) that defines a perimeter wall that extends from a perimeter of the base, the two portions together forming an inflatable chamber. The perimeter wall comprises at least one layer of cloth that has been impregnated with a water-settable material. In use, after or when the inflatable chamber is inflated and the water-settable material is set, the first portion and second portion define a storage chamber for a liquid or other bulk material. A method of deploying a deployable storage container is also provided. A combination of a container and an inflation system suitable for inflating the container to form its final deployed shape prior to the water-settable material having set is further provided.

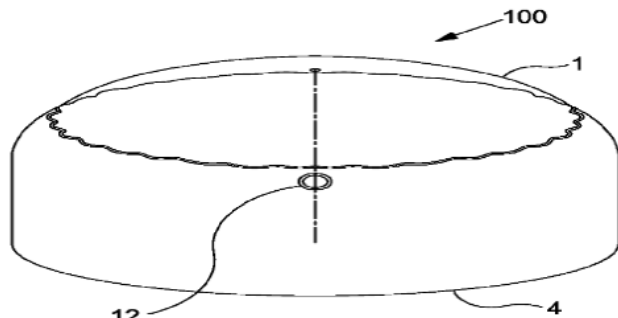


Figure 1

No. of Pages : 12 No. of Claims : 25

(54) Title of the invention : CONCRETE POST-TENSIONING ANCHORS

(51) International classification :E04C 5/12  
 (31) Priority Document No :63/052283  
 (32) Priority Date :15/07/2020  
 (33) Name of priority country :U.S.A.  
 (86) International Application No :PCT/IB2021/054937  
 Filing Date :04/06/2021  
 (87) International Publication No :WO 2022/013638  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)**Name of Applicant :**  
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 (72)**Name of Inventor :**  
**1)HAYEK, Carol**  
**2)MOUZANNAR, Richard**

(57) Abstract :

A post-tensioning anchor is configured to post-tension at least one tension steel element. The post-tensioning anchor includes a force transfer unit configured to transmit prestressing force into a surrounding concrete substrate and at least one steel member configured to resist an anchoring force by the at least one tension steel element on the force transfer unit. The force transfer unit is made of concrete.

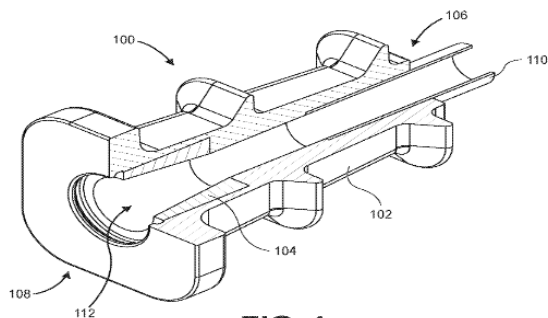


FIG. 1

No. of Pages : 14 No. of Claims : 25

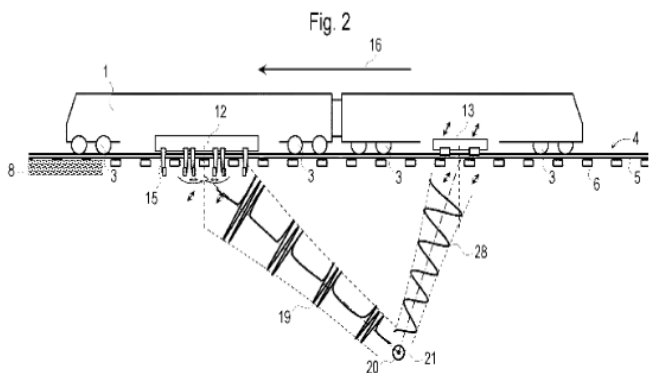
(54) Title of the invention : METHOD AND SYSTEM FOR ASCERTAINING A VIBRATION TRANSMISSION IN THE REGION OF A TRACK

(51) International classification :B61L 15/00, E01B 27/02, G01H 1/00  
 (31) Priority Document No :A50890/2020  
 (32) Priority Date :16/10/2020  
 (33) Name of priority country :Austria  
 (86) International Application No :PCT/EP2021/075408  
 Filing Date :16/09/2021  
 (87) International Publication No :WO 2022/078698  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

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**2)ANTONY, Bernhard**  
**3)KOPF, Fritz**

(57) Abstract :

The invention relates to a method for ascertaining a vibration transmission in the region of a track (4), wherein the track (4) is subjected to vibrations during a working process by way of a working unit (12, 13) of a track construction machine (1) traveling on the track (4), wherein vibrations (19, 28) transmitted through the track (4) are measured by way of a sensor (20) at a distance from the working unit (12, 13) and wherein measured data from the sensor (20) are evaluated in an evaluation device (25). In this case, a position of the sensor (20) in relation to the working unit (12, 13) is predefined to the evaluation device (25), wherein a correlation between a vibration effect of the working unit (12, 13) as acquired by the sensor (20) and a distance (r) between the working unit (12, 13) and the sensor (20) is ascertained in the evaluation device (25). The method according to the invention has the advantage that the vibration effect of the working unit is able to be acquired at the location of the sensor in real time.



No. of Pages : 20 No. of Claims : 15

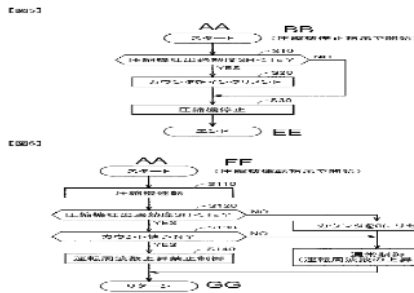
(54) Title of the invention : REFRIGERATION-CYCLE DEVICE, AIR CONDITIONER COMPRISING SAME, AND METHOD FOR CONTROLLING REFRIGERATION-CYCLE DEVICE

(51) International classification :F25B 1/00  
 (31) Priority Document No :NA  
 (32) Priority Date :NA  
 (33) Name of priority country :NA  
 (86) International Application No :PCT/JP2020/035330  
 Filing Date :17/09/2020  
 (87) International Publication No :WO 2022/059149  
 (61) Patent of Addition to Application Number :NA  
 Filing Date :NA  
 (62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)MITSUBISHI ELECTRIC CORPORATION**  
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 (72)Name of Inventor :  
**1)KANATANI, Toshiki**  
**2)ISHIYAMA, Hiroki**

(57) Abstract :

For a case in which the frequency of a compressor (10) being stopped exceeds a stipulated value when the superheat degree of a refrigerant output from the compressor (10) is lower than a setting value, when the superheat degree after starting operation of the compressor (10) is lower than the setting value, a control device (90) executes control for prohibiting an increase in the operation frequency of the compressor (10), and, for a case in which the stopped frequency is equal to or less than the stipulated value, the control device (90) permits an increase in the operation frequency of the compressor (10).



S10, S120... Compressor discharge superheat degree  $S_{11} < T_s?$   
 S20... Increment counter  
 S30... Stop compressor  
 S110... Operate compressor  
 S130... Count value = N?  
 S140... Control for prohibiting increase in operation frequency  
 S150... Reset counter to 0  
 S160... Normal control (Permit increase in operation frequency)  
 AA... Start  
 BB... Started by compressor stop instruction  
 EE... End  
 FF... Started by instruction to operate compressor  
 GG... Return

No. of Pages : 20 No. of Claims : 11

(54) Title of the invention : ELEVATED PUBLIC TRANSPORTATION SYSTEM

(51) International classification :A45C 051400,  
A45C 133000, B60N  
022400, B61B  
130400, G06Q  
503000

(31) Priority Document No :63/061321

(32) Priority Date :05/08/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IL2021/050923  
Filing Date :29/07/2021

(87) International Publication No :WO 2022/029760

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

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

(71)Name of Applicant :  
**1)ARON, Eitan**  
Address of Applicant :35 Hagalgal Street 5239235 Ramat Gan  
Israel

(72)Name of Inventor :  
**1)ARON, Eitan**

(57) Abstract :

Provided herein is an automated elevated public transportation system comprising an elevated railway network having a plurality of rails, configured to drive passengers and/or freight carts and drop off/pick up passengers and freight anywhere along the rails.

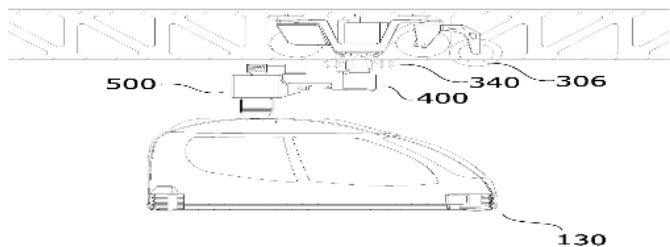


Fig 3E

No. of Pages : 34 No. of Claims : 18

(54) Title of the invention : NOTIFICATION MANAGEMENT SYSTEMS AND METHODS

(51) International classification :G06Q 100600, G16H 502000, H04L 651023, H04M 017246, H04M 035100

(31) Priority Document No :63/068334

(32) Priority Date :20/08/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/046999

Filing Date :20/08/2021

(87) International Publication No :WO 2022/040591

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :  
**1)SIMETRIC, INC.**  
 Address of Applicant :6230 Shiloh Road, Suite 210  
 Alpharetta, GA 30005-2219 U.S.A.

(72)Name of Inventor :  
**1)BOONE, Richard A., Jr.**  
**2)SRIVASTAVA, Sanjay**

(57) Abstract :

Example notification management systems and methods are described. In one implementation, techniques identify multiple devices communicating using a carrier and identify a trigger associated with at least one of the multiple devices. Based on identifying the trigger, the techniques may apply at least one business rule associated with at least one of the multiple devices. The techniques may further generate at least one notification in response to applying the business rule.

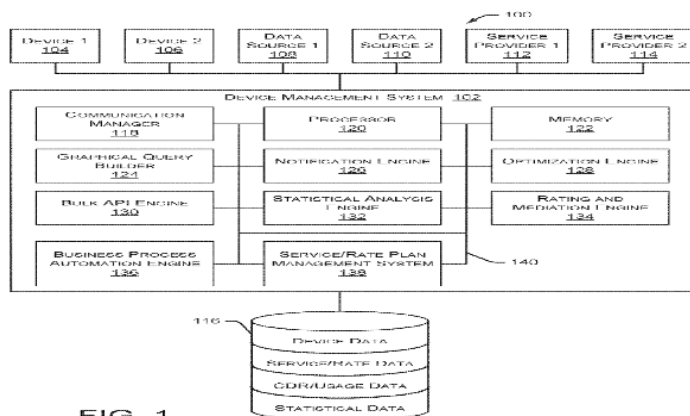


FIG. 1

No. of Pages : 29 No. of Claims : 20

(54) Title of the invention : VETO CAR-T CELLS

(51) International classification :A61K 351700,  
C07K 147250, C07K  
162800, C12N  
050783, G06Q  
100600

(31) Priority Document No :63/064038  
(32) Priority Date :11/08/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IL2021/050984  
Filing Date :11/08/2021  
(87) International Publication No :WO 2022/034593  
(61) Patent of Addition to Application  
Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :at the Weizmann Institute of Science

P.O. Box 95 7610002 Rehovot Israel

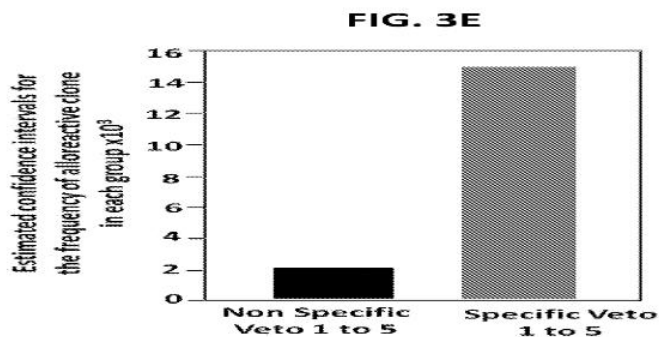
**2)ICHILOV TECH LTD.**

(72)Name of Inventor :

**1)REISNER, Yair****2)GLOBERSON LEVIN, Anat****3)BACHAR-LUSTIG, Esther****4)LASK, Assaf****5)NATHANSOHN-LEVI, Bar****6)WAKS, Tova****7)HORN, Galit****8)ESHCHAR, Zelig**

(57) Abstract :

A method of generating a population of genetically modified veto cells is disclosed. The method comprising: (a) providing a population of cells comprising T cells, the T cells comprising at least 40 % memory CD8+ T cells; (b) culturing the population of cells comprising T cells with an antigen or antigens under conditions which allow enrichment of tolerance-inducing antigen- specific cells having a central memory T-lymphocyte (T<sub>cm</sub>) phenotype, the cells being depleted of graft versus host (GVH) reactivity; and (c) transducing the cells with a polynucleotide encoding a heterologous cell surface receptor comprising a T cell receptor signaling module, thereby generating the population of genetically modified veto cells.



No. of Pages : 92 No. of Claims : 50



(54) Title of the invention : DEVICE MANAGEMENT SYSTEMS AND METHODS

(51) International classification :A01C 072000,  
A61M 051420,  
A61M 051720, G01N  
350000, G16H  
201700

(31) Priority Document No :63/068334

(32) Priority Date :20/08/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/046996  
Filing Date :20/08/2021

(87) International Publication No :WO 2022/040588

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

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

(71)Name of Applicant :  
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Alpharetta, GA 30005-2219 U.S.A.

(72)Name of Inventor :  
**1)BOONE, Richard A., Jr.**  
**2)SRIVASTAVA, Sanjay**

(57) Abstract :

Example device management systems and methods are described. In one implementation, techniques identify a first plurality of devices communicating using a first rate plan associated with a carrier. The techniques further identify a second plurality of devices communicating using a second rate plan associated with the carrier. The techniques analyze the first rate plan and the second rate plan based on data usage. The techniques then identify at least one recommended rate plan change for at least one of the first plurality of devices or the second plurality of devices based on the analysis.

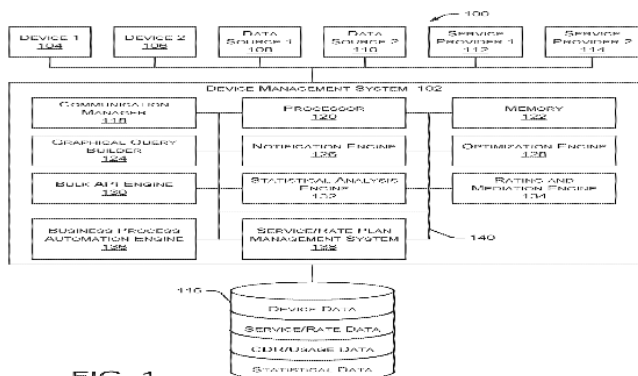


FIG. 1

No. of Pages : 28 No. of Claims : 20

(54) Title of the invention : METHOD AND DEVICE FOR SEPARATING MULTILAYER COMPOSITE MATERIALS

(51) International classification :A61F 134900, H01L 217620, H01L 336400, H04L 611030, H04L 675650

(31) Priority Document No :10 2021 109 591.3

(32) Priority Date :16/04/2021

(33) Name of priority country :Germany

(86) International Application No :PCT/DE2022/100292  
 Filing Date :14/04/2022

(87) International Publication No :WO 2022/218481

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

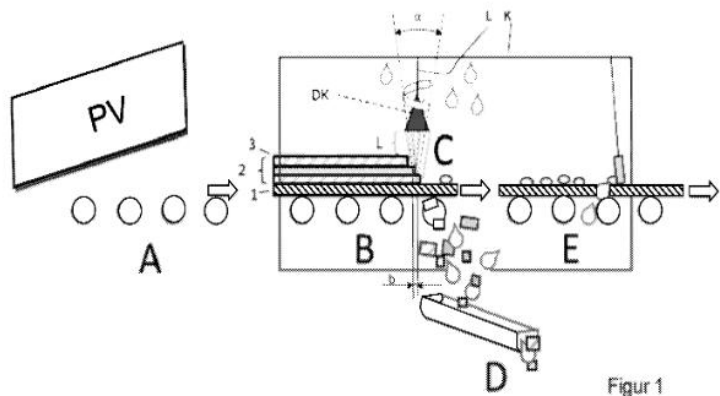
(62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)PALITZSCH, Wolfram**  
 Address of Applicant :Heinrich Heine Str. 1c 09599 Freiberg Germany  
**2)RÖVER, Ingo**

(72)Name of Inventor :  
**1)PALITZSCH, Wolfram**  
**2)RÖVER, Ingo**

(57) Abstract :

The invention relates to a method and a device for separating multilayer composite material in which valuable material is located between two layers of the multilayer composite material, in particular in the form of photovoltaic modules (PV), TFT, OLED, or LCD displays, consisting of at least one lower hard layer (1) and at least one soft layer (2, 3) located thereon, wherein one or more layers of the multilayer composite material to be separated is cut in layers or as a whole using at least one high-pressure water jet and is then raised and individualized, and one or more nozzles which discharge the high-pressure water jet are rotated by means of a rotatable nozzle head (DK) about a rotational axis (L) of the nozzle head (DK) while at the same time the nozzle head (DK) and the multilayer composite material are moved relative to each other such that the valuable materials lie freely individually or on the separated layers after the separation process. The device has at least one nozzle (D1, D2) for discharging at least one respective high-pressure water jet, and at least one nozzle head (DK) has a nozzle (DK) arranged outside of the rotational axis of the nozzle head (DK).



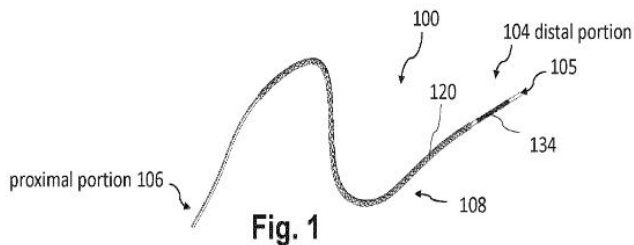
No. of Pages : 16 No. of Claims : 15

(54) Title of the invention : A CATHETER ACCESSORY TO INCREASE A PUSHABILITY OF A CATHETER

(51) International classification	:A61B 050600, A61B 061200, A61M 250000, A61M 250100, A61M 251000	(71)Name of Applicant : <b>1)LES ENTREPRISES NANOSTENT INC.</b> Address of Applicant :2590 ch. Saint-Louis Quebec, Québec G1W1N2 Canada
(31) Priority Document No	:63/106431	(72)Name of Inventor :
(32) Priority Date	:28/10/2020	<b>1)BERTRAND, Olivier François</b>
(33) Name of priority country	:U.S.A.	<b>2)GALAZ, Ramses</b>
(86) International Application No	:PCT/CA2021/051523	
Filing Date	:28/10/2021	
(87) International Publication No	:WO 2022/087739	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A catheter accessory for use with a catheter having a distal portion comprising an intervention accessory having a distal portion outer diameter. The catheter accessory comprises an elongated tubular structure, releasably mounted onto the intermediate portion, but static during operation, to provide a pre-determined flexural rigidity and a pre-determined flexibility simultaneously to the intermediate portion covered by the elongated tubular structure. The elongated tubular structure has a default shape and size for operation with a lumen with an inside diameter larger than the intermediate portion outer diameter and smaller than the distal portion outer diameter, holding the catheter accessory onto the intermediate portion and completely proximal to the distal portion comprising the intervention accessory during the operation. It can be slid from the proximal portion, or be temporarily radially expandable to be inserted from the larger distal tip and slid toward the desired static position, completely proximal the distal portion.



No. of Pages : 23 No. of Claims : 20

(54) Title of the invention : GRIPPING DEVICE FOR GRIPPING, RETAINING AND GUIDING CONTAINERS, AND TRANSPORTING APPARATUS HAVING SUCH A GRIPPING DEVICE

(51) International classification :B25J 091600, B25J 150000, B25J 150200, B25J 151000, H04B 013827

(31) Priority Document No :20193870.1

(32) Priority Date :01/09/2020

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2021/071142  
 Filing Date :28/07/2021

(87) International Publication No :WO 2022/048830

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

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

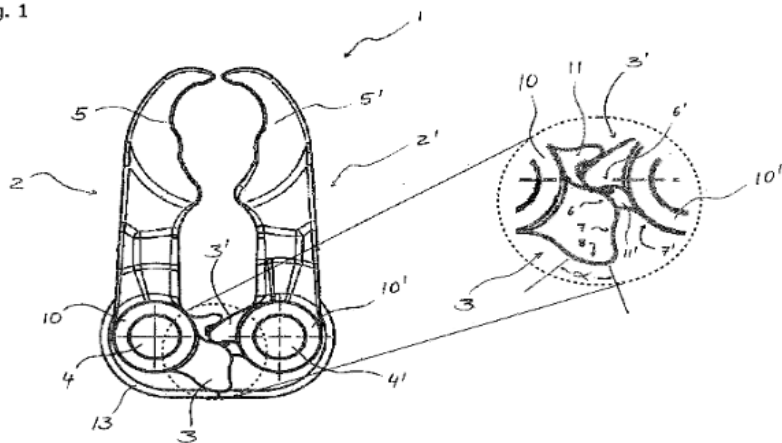
(71)Name of Applicant :  
**1)TYROLON-SCHULNIG GMBH**  
 Address of Applicant :Am Rossberg 1 6395 Hochfilzen Austria

(72)Name of Inventor :  
**1)SCHULNIG, Ludwig**  
**2)SCHULNIG, Elmar**  
**3)MAYER, Peter**

(57) Abstract :

The present invention relates to a gripping device for gripping, retaining and guiding containers, in particular bottle-like containers, having: at least one gripping-arm pair 1 having a first gripping arm 2 and also an identically but oppositely formed second gripping arm 2', wherein the two gripping arms 2, 2' each have a bearing bore 4, 4', by means of which they can be pivotably mounted, and having a closing means 13 (or opening means) for the gripping-arm pair 1. With the aim of providing a reliable opening mechanism, the first gripping arm 2 has a contour lever 3 and the second gripping arm 2' has a follower lever 3', the levers being in operative engagement with one another and serving as opening means (or closing means) for the gripping-arm pair 1.

Fig. 1



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

(54) Title of the invention : RESILIENT SOLE AND METHOD FOR MANUFACTURING SAME

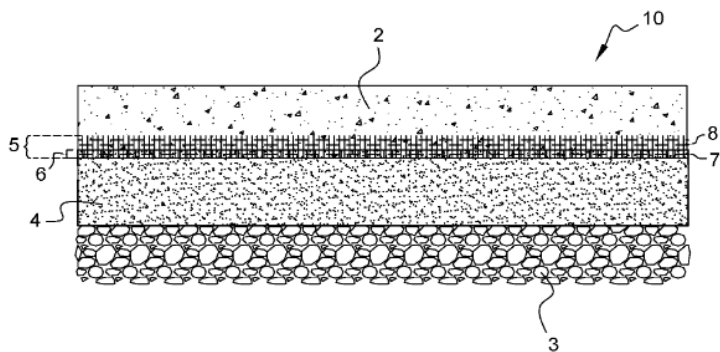
(51) International classification	:A43B 130400, A43B 131800, A63B 530400, C10B 150200, D06F 753800
(31) Priority Document No	:BE2020/5684
(32) Priority Date	:02/10/2020
(33) Name of priority country	:Belgium
(86) International Application No	:PCT/EP2021/076739
Filing Date	:29/09/2021
(87) International Publication No	:WO 2022/069512
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)RUBBERGREEN INDUSTRIE**  
 Address of Applicant :Route de Bavay 44 7080 Frameries Belgium  
 (72)Name of Inventor :  
**1)PRUD'HOMME, Olivier**  
**2)SEGHAR, Said**

(57) Abstract :

Resilient sole 1 which is attached to a concrete layer (2) or which is positioned between a concrete layer (2) and ballast (3), and which is formed by a layer (4) of recycled rubber, in the revulcanised state after devulcanisation, and a layer (5) of structured fibres which is arranged so as to be in contact with the rubber layer, the fibres being partially impregnated in the rubber layer and having a free thickness (8) of structured fibres, assembly comprising the sole and method for manufacturing same.

**Fig. 2**



No. of Pages : 14 No. of Claims : 18

(54) Title of the invention : METHOD FOR MONITORING A RAILWAY TRACK AND MONITORING UNIT FOR MONITORING A RAILWAY TRACK

	:B61K 090800, B61L 011800, B61L 230400, B61L 250200, H01M 505020
(51) International classification	
(31) Priority Document No	:20200042.8
(32) Priority Date	:05/10/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/076924
Filing Date	:30/09/2021
(87) International Publication No	:WO 2022/073842
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
**1)FRAUSCHER SENSOR TECHNOLOGY GROUP GMBH**

Address of Applicant :Gewerbestrasse 1 4774 St. Marienkirchen Austria

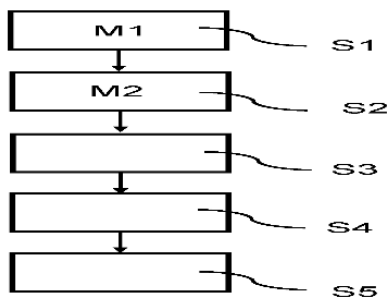
(72)Name of Inventor :

**1)HAID, Sebastian**  
**2)ZEILINGER, Rene**

(57) Abstract :

A method for monitoring a railway track (29) is provided, the method comprising: detecting a first monitoring signal (M1) by a distributed acoustic sensor (20) at an initial position (21) while a rail vehicle passes the initial position (21), wherein the distributed acoustic sensor (20) is arranged along the track (29), detecting a second monitoring signal (M2) by the distributed acoustic sensor (20) at at least one predefined position (22) along the track (29) while a rail vehicle passes the predefined position (22), comparing the first monitoring signal (M1) and the second monitoring signal (M2) with each other, wherein the first monitoring signal (M1) comprises features (23) that each relate to one axle of the rail vehicle passing the initial position (21) and the second monitoring signal (M2) comprises features (23) that each relate to one axle of the rail vehicle passing the predefined position (22), and comparing the first monitoring signal (M1) and the second monitoring signal (M2) with each other comprises counting the features (23) relating to axles of the respective passing rail vehicle for the first monitoring signal (M1) and the second monitoring signal (M2). Furthermore, a monitoring unit (24) for monitoring a railway track (29) is provided.

FIG. 1



No. of Pages : 26 No. of Claims : 15

(54) Title of the invention : INTERLOCKING BUILDING BLOCKS AND MORTARLESS INTERLOCKING BUILDING SYSTEM

(51) International classification :A63H 330800, E04B 020200, E04B 021200, E04B 021600, E04B 021800

(31) Priority Document No :3091815

(32) Priority Date :31/08/2020

(33) Name of priority country :Canada

(86) International Application No :PCT/CA2021/051200  
Filing Date :31/08/2021

(87) International Publication No :WO 2022/040815

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

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

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)BOWERS, Dustin**

(57) Abstract :

A mortarless interlocking building block for constructing walls and/or partitions of a building including a solid moulded plastic body having a front face, a rear face, opposed top and bottom faces and opposed end faces, the opposed front and rear faces being substantially identical and including at least two vertically extending dovetail protrusions defining a dovetail recess for matingly receiving a dovetail protrusion of another building component, one of the opposed end faces having at least one vertically extending recess and the other of the end faces having at least one vertically extending protrusion for mating with a recess of another building block to interconnect adjacent blocks in end-to-end relation, and the top face having at least two tubular protrusions and the bottom face having at least two tubular recesses to lock stacked building blocks.

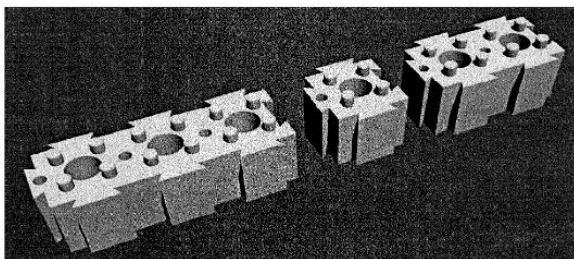


FIG. 1

No. of Pages : 10 No. of Claims : 13

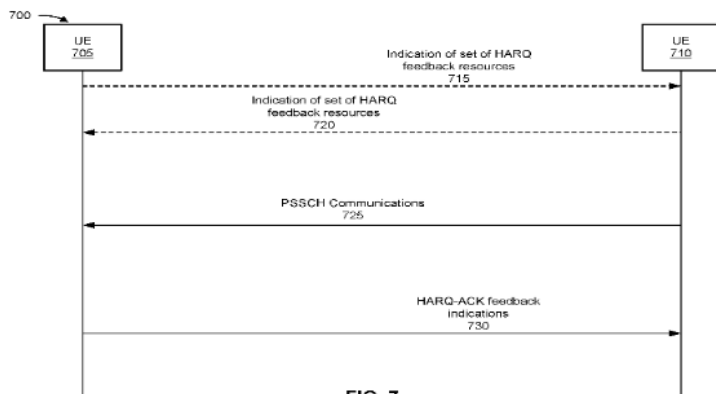
(54) Title of the invention : RESOURCE DETERMINATION FOR SIDELINK HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK

	:H04L 011600, H04L 011800, H04W 044000, H04W 044600, H04W 921800
(51) International classification	
(31) Priority Document No	:17/125856
(32) Priority Date	:17/12/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/072437
Filing Date	:16/11/2021
(87) International Publication No	:WO 2022/133377
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :  
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 (72)Name of Inventor :  
**1)HOSSEINI, Seyedkianoush**  
**2)YANG, Wei**

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may receive a plurality of physical sidelink shared channel (PSSCH) communications on a plurality of sidelink component carriers. The UE may transmit, using a set of resources on a single component carrier of the plurality of sidelink component carriers and based at least in part on a determination of the set of resources, a plurality of hybrid automatic repeat request acknowledgement (HARQ-ACK) feedback indications corresponding to the plurality of PSSCH communications, wherein the determination of the set of resources is based at least in part on a physical sidelink feedback channel (PSFCH) format. Numerous other aspects are provided.



No. of Pages : 35 No. of Claims : 30



(54) Title of the invention : ABSORPTIVE TIP BRUSH BIOPSY DEVICE, KIT AND METHOD

(51) International classification :A61B 100200, A61B 100400, A61B 170000, C07K 164000, G01N 335430

(31) Priority Document No :63/075728

(32) Priority Date :08/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/049527  
Filing Date :08/09/2021

(87) International Publication No :WO 2022/056038

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

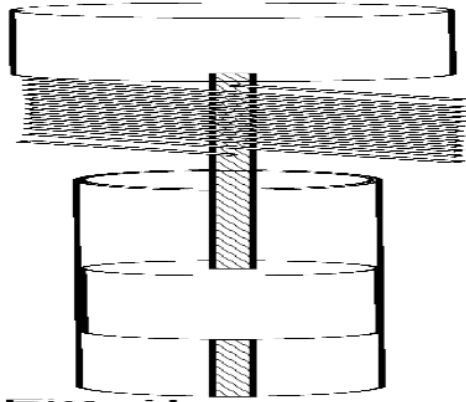
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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 Address of Applicant :25th Floor 55 Broadway New York, New York 10006 U.S.A.  
**2)MALANOWSKA-STEGER, Zanetta**  
**3)STEGA, Damian**

(72)Name of Inventor :  
**1)MALANOWSKA-STEGER, Zanetta**  
**2)STEGA, Damian**

(57) Abstract :

A flexible coaxial tissue sampling device, comprising: a sheath; a displaceable wire within the sheath having a first end extending from a proximal end of the sheath and second end which extends, in a first state, from a distal end of the sheath, and in a second state, retracts into the distal end of the sheath; the second end of the displaceable wire comprising a cellular sampling structure and a porous absorptive material which are external to the sheath in the first state and internal in the second state. A tension on the first end of the displaceable wire at the proximal end of the sheath retracts the displaceable wire from the first state to the second state, along with the cellular sampling structure and the porous absorptive material. The porous absorptive material retains a fluid sample after retraction and protects against contact of the sample with other tissues.



No. of Pages : 22 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327025966 A

(19) INDIA

(22) Date of filing of Application :06/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : TOOLS & METHODS USEFUL FOR DETECTION OF LACTOSE INTOLERANCE AND USES THEREOF

(51) International classification	:A61K 090000, A61P 010000, A61P 170000, C22C 210200, C22C 211000	(71)Name of Applicant : <b>1)DUCREST, Percevent</b> Address of Applicant :Route de l'arsenal 1 1892 LAVEY Switzerland <b>2)HARNISCHBERG, Franck</b>
(31) Priority Document No	:20195885.7	(72)Name of Inventor :
(32) Priority Date	:14/09/2020	<b>1)DUCREST, Percevent</b>
(33) Name of priority country	:EPO	<b>2)HARNISCHBERG, Franck</b>
(86) International Application No	:PCT/EP2021/075058	
Filing Date	:13/09/2021	
(87) International Publication No	:WO 2022/053665	
(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 method for the detection of lactose tolerance markers in a sample by lateral flow immunoassay, a lateral flow immunoassay device, primers and extraction buffer and uses thereof and related tools and assays useful in said method.

No. of Pages : 36 No. of Claims : 19

(54) Title of the invention : METHODS AND SYSTEMS OF DEWATERING TAILINGS

(51) International classification	:C02F 031000, C04B 181200, C04B 331320, D21F 014800, G06F 169510
(31) Priority Document No	:63/075592
(32) Priority Date	:08/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/058136
Filing Date	:07/09/2021
(87) International Publication No	:WO 2022/053932
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**2)GRAHAM, James**  
**3)ORR, Geoff**  
**4)FISHER, II, James C.**

(57) Abstract :

Methods of dewatering tailings, including tailings streams that may include a clay, ultra-fine particles, or both. The methods may include providing a tailings stream, dewatering the tailings stream with a dewatering apparatus to produce a first cake and a first residual effluent stream, contacting the first residual effluent stream with one or more additives, and dewatering the first residual effluent stream with a solid bowl centrifuge to produce a second cake and a second residual effluent stream. The methods may include providing a tailings stream, contacting the tailings stream with one or more additives, and dewatering the tailings stream with a solid bowl centrifuge to produce a first cake and a first residual effluent stream.

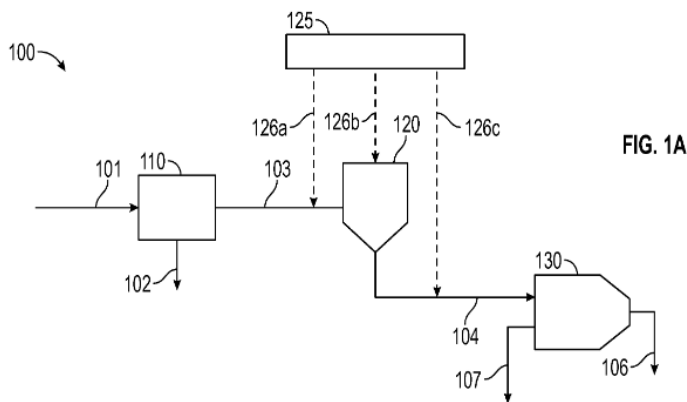


FIG. 1A

No. of Pages : 55 No. of Claims : 57

(54) Title of the invention : MULTIMODE RADAR SYSTEM

(51) International classification :G01S 070300, G01S 073500, G01S 074000, G01S 130200, G01S 139310

(31) Priority Document No :279407

(32) Priority Date :13/12/2020

(33) Name of priority country :Israel

(86) International Application No :PCT/US2021/072406  
Filing Date :15/11/2021

(87) International Publication No :WO 2022/126061

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

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

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(72)Name of Inventor :  
**1)HEMO, Evyatar**  
**2)LEVITAN, Evgeny**  
**3)SASSON, Oron**

(57) Abstract :

In one example, an apparatus for multimode radar comprises: a transmit circuit; a receive circuit; and a controller configured to: transmit a first signal using the transmit circuit; set a maximum input signal level at the receive circuit, wherein the maximum input signal level is set based on a minimum of the first distance range; and detect, using the receive circuit, the reflected first signal; transmit a second signal using the transmit circuit; set a minimum input signal level at the receive circuit, wherein the minimum input signal level is set based on a maximum of the second distance range; detect, using the receive circuit, the reflected second signal; and measure a distance from an object based on one of the reflected first signal or the reflected second signal.

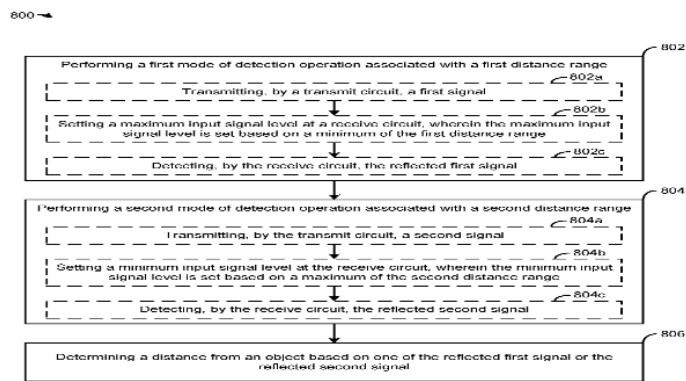


FIG. 8

No. of Pages : 34 No. of Claims : 30

(54) Title of the invention : CONFIGURING AN ULTRASONIC FINGERPRINT SENSOR RELATIVE TO A DEVICE DISPLAY

(51) International classification :A61B 173200, B01L 030000, G01N 292650, G06F 213200, H04R 010200

(31) Priority Document No :17/247734

(32) Priority Date :21/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/072051  
Filing Date :27/10/2021

(87) International Publication No :WO 2022/140711

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

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

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**3)LU, Yipeng**  
**4)TSENG, Chin-Jen**  
**5)DJORDJEV, Kostadin, Dimitrov**

(57) Abstract :

Various aspects of the present disclosure relate generally to ultrasonic fingerprint sensor. In some aspects, a device may include a flexible display. The device may include an ultrasonic fingerprint sensor that is configured to transmit and receive an ultrasonic signal in an acoustic path through the flexible display. The device may include an acoustics configuration layer that is situated between the display and the ultrasonic fingerprint sensor. The acoustics configuration layer may be configured to optimize a signal strength of the ultrasonic signal based at least in part on a configuration of one or more layers of the flexible display. Numerous other aspects are provided.

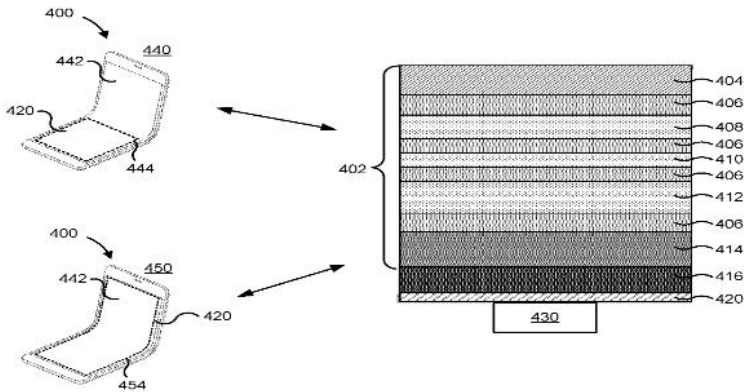


FIG. 4

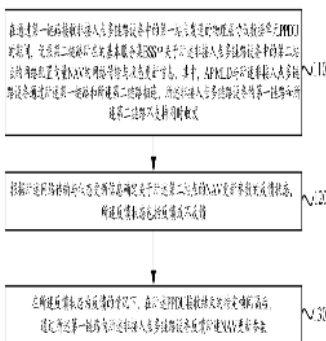
No. of Pages : 22 No. of Claims : 30

(54) Title of the invention : PARAMETER FEEDBACK METHOD, PARAMETER UPDATE METHOD, ASSOCIATION METHOD, COMMUNICATION NODE, COMMUNICATION SYSTEM, AND MEDIUM

(51) International classification	:H04B 035400, H04N 191840, H04N 191960, H04N 196000, H04W 524000	(71)Name of Applicant : <b>1)ZTE CORPORATION</b> Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(31) Priority Document No	:202011529861.0	(72)Name of Inventor : <b>1)LU, Liuming</b> <b>2)YUAN, Liquan</b>
(32) Priority Date	:22/12/2020	
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2021/118277	
Filing Date	:14/09/2021	
(87) International Publication No	:WO 2022/134667	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present application provides a parameter feedback method, a parameter update method, an association method, a communication node, a communication system, and a medium. The parameter feedback method comprises: during the period that a physical layer protocol data unit (PPDU) sent by a first station in a non-access point multi-link device is received by means of a first link, recording network transmission and state update information on a network allocation vector (NAV) of a second station in the non-access point multi-link device in a basic service set where a second link is located, wherein an access point multi-link device is connected to the non-access point multi-link device by means of the first link and the second link, and the first link and the second link of the non-access point multi-link device do not support simultaneous transceiving; determining a feedback state on an NAV update parameter of the second station according to the network transmission and state update information, wherein the feedback state comprises feedback or non-feedback; and in the case that the feedback state is feedback, feeding back the NAV update parameter to the non-access point multi-link device by means of the first link after a specific frame interval at the end of reception of the PPDU.



110 During the period that a physical layer protocol data unit (PPDU) sent by a first station in a non-access point multi-link device is received by means of a first link, record network transmission and state update information on a network allocation vector (NAV) of a second station in the non-access point multi-link device in a basic service set (BSS) where a second link is located, wherein an AP-MLD is connected to the non-access point multi-link device by means of the first link and the second link, and the first link and the second link of the non-access point multi-link device do not support simultaneous transceiving.

120 Determine a feedback state on an NAV update parameter of the second station according to the network transmission and state update information, wherein the feedback state comprises feedback or non-feedback.

130 In the case that the feedback state is feedback, feed back the NAV update parameter to the non-access point multi-link device by means of the first link after a specific frame interval at the end of reception of the PPDU.

图2

No. of Pages : 41 No. of Claims : 27

(54) Title of the invention : RELAY COMMUNICATION INFORMATION CONFIGURATION METHOD AND APAPRATUS, AND ELECTRONIC DEVICE

	:G06F 094450, H04B 071550, H04B 071850, H04L 410803, H04W 880400
(51) International classification	
(31) Priority Document No	:202011069824.6
(32) Priority Date	:29/09/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/121242
Filing Date	:28/09/2021
(87) International Publication No	:WO 2022/068793
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**2)KE, Xiaowan**  
**3)XIE, Zhenhua**

(57) Abstract :

The present application belongs to the technical field of communications, and discloses a relay communication information configuration method and apparatus, and an electronic device. The relay communication information configuration method comprises: a terminal reports a relay communication mode to a network-side device; and the terminal receives relay communication information sent by the network-side device, the relay communication information comprising a relay communication policy and/or authorization parameters corresponding to the relay communication mode.

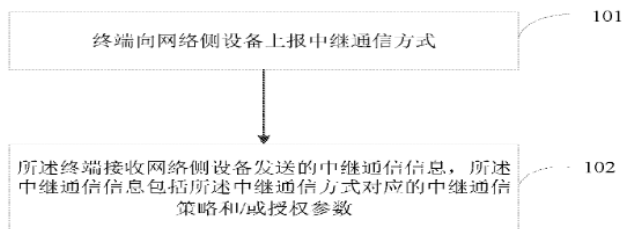


图 2

- 101 A terminal reports a relay communication mode to a network-side device
- 102 The terminal receives relay communication information sent by the network-side device, the relay communication information comprising a relay communication policy and/or authorization parameters corresponding to the relay communication mode

No. of Pages : 28 No. of Claims : 13

(54) Title of the invention : FURNACE AND METHOD FOR OPERATING A FURNACE

(51) International classification	:C21C 054600, F27B 012600, F27D 170000, F27D 190000, F27D 990000	(71)Name of Applicant : <b>1)INNOVATHERM PROF. DR. LEISENBERG GMBH + CO. KG</b> Address of Applicant :Am Hetgesborn 20 35510 Butzbach Germany
(31) Priority Document No	:10 2020 128 370.9	(72)Name of Inventor : <b>1)HEINKE, Frank</b>
(32) Priority Date	:28/10/2020	<b>2)MAIWALD, Detlef</b>
(33) Name of priority country	:Germany	<b>3)SEIFERT, Hans-Joerg</b>
(86) International Application No	:PCT/EP2021/069571	
Filing Date	:14/07/2021	
(87) International Publication No	:WO 2022/089796	
(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 and to a control device for operating a furnace (10), in particular an anode furnace, wherein: the furnace is constituted of a plurality of heating ducts (12) and furnace chambers (13); the furnace chambers are intended for receiving carbon-containing products, in particular anodes, and the heating ducts are intended for controlling the temperature of the furnace chambers; the furnace comprises at least one furnace unit (11); the furnace unit comprises a heating-up zone (18), a firing zone (19) and a cooling zone (20), which for their part are formed from at least one section (37, 38, 39, 40, 41, 42) comprising at least one furnace chamber; an extraction ramp (15) is arranged in a section of the heating-up zone and a burner ramp (16) is arranged in a section of the firing zone; process air is heated in the heating ducts of the firing zone by means of the burner ramp and exhaust gas from the heating ducts of the heating zone is extracted by means of the extraction ramp; operation of the ramps is controlled by means of a control device of the furnace unit; for each of at least two sections an enthalpy stream is determined by means of the control device; a difference between the respective enthalpy streams is determined as a characteristic value; the characteristic value determined in this way is compared to a pre-defined characteristic value; and a furnace condition can be determined on the basis of this comparison.

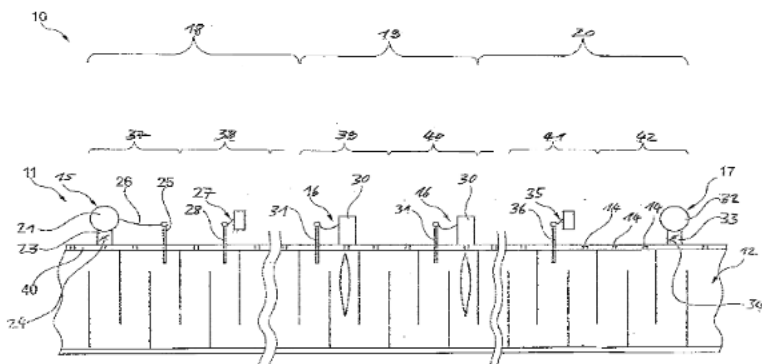


Fig. 2

No. of Pages : 23 No. of Claims : 20



(54) Title of the invention : METHOD FOR CORRECTING ANTENNAS IN CELL, ELECTRONIC DEVICE, AND STORAGE MEDIUM

(51) International classification :G04C 100200, H01M 049000, H01M 080408, H01M 080418, H05K 050200

(31) Priority Document No :202011519600.0

(32) Priority Date :21/12/2020

(33) Name of priority country :China

(86) International Application No :PCT/CN2021/137901  
Filing Date :14/12/2021

(87) International Publication No :WO 2022/135225

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

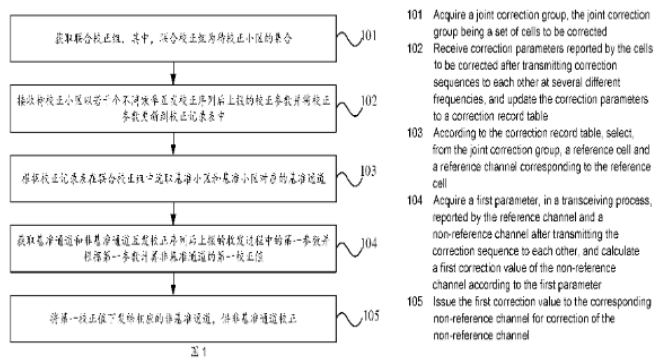
(62) Divisional to Application Number :NA  
Filing Date :NA

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 Address of Applicant :ZTE Plaza, Keji Road South Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China

(72)Name of Inventor :  
**1)HUI, Yan**  
**2)ZHOU, Jianguang**  
**3)XU, Rongmao**

(57) Abstract :

A method for correcting antennas in a cell, an electronic device, and a storage medium. A method for correcting antennas in a cell comprises: acquiring a joint correction group, the joint correction group being a set of cells to be corrected (101); receiving correction parameters reported by the cells to be corrected after transmitting correction sequences to each other at several different frequencies, and updating the correction parameters to a correction record table (102); according to the correction record table, selecting, from the joint correction group, a reference cell and a reference channel corresponding to the reference cell (103); acquiring a first parameter, in a transeiving process, reported by the reference channel and a non-reference channel after transmitting the correction sequence to each other, and calculating a first correction value of the non-reference channel according to the first parameter (104); and issuing the first correction value to the corresponding non-reference channel for correction of the non-reference channel (105).



No. of Pages : 20 No. of Claims : 11

(54) Title of the invention : SIGNALING OF GRADIENT VECTORS FOR FEDERATED LEARNING IN A WIRELESS COMMUNICATIONS SYSTEM

(51) International classification :G01S 190800, G06F 162500, G06N 200000, G06N 202000, H04L 411600

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2020/140705  
Filing Date :29/12/2020

(87) International Publication No :WO 2022/141034

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

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

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**2)XU, Hao**  
**3)ZHANG, Yu**  
**4)HAO, Chenxi**  
**5)WEI, Chao**  
**6)HU, Rui**  
**7)WU, Liangming**  
**8)ZHENG, Ruiming**  
**9)HUANG, Yin**  
**10)REN, Yuwei**

(57) Abstract :

Methods, systems, and devices for wireless communications are described that support signaling of compressed gradient vectors in a machine learning system that utilizes federated learning. The compressed gradient vectors may be used to report stochastic gradients from multiple edge devices (e.g., multiple user equipment (UE) devices) that are combined into a global model at an edge server (e.g., a base station). A base station may configure a UE with one or more parameters for quantizing a local stochastic gradient, and for reporting the quantized local stochastic gradient in a set of compressed gradient vectors. Each vector of the compressed gradient vectors may be associated with a different stage of a multi-stage compression procedure for reporting the local stochastic gradient, and multiple reports from multiple UEs may be aggregated in a federated learning procedure associated with a machine learning algorithm.

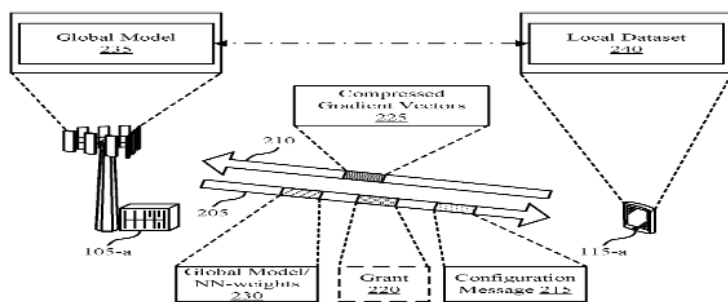


FIG. 2

No. of Pages : 71 No. of Claims : 30

(54) Title of the invention : LAYER 1 AND LAYER 2 MOBILITY IN MULTIPLE DISTRIBUTED UNIT DEPLOYMENTS

(51) International classification :A61F 020000, A61M 250600, E21B 470100, H04L 410893, H04W 880800

(31) Priority Document No :17/121514

(32) Priority Date :14/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/072408

Filing Date :15/11/2021

(87) International Publication No :WO 2022/133375

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

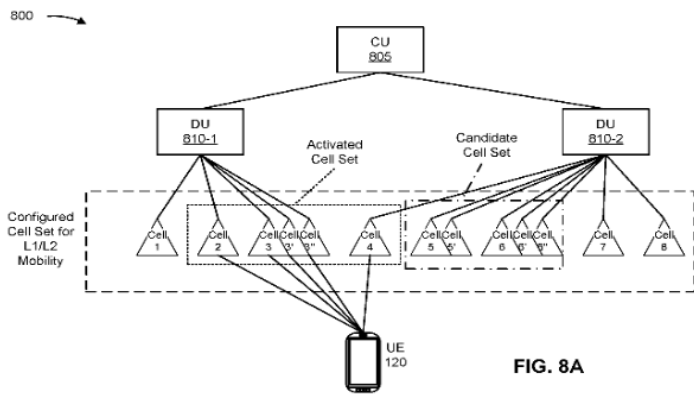
Filing Date :NA

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**2)LUO, Tao**  
**3)DAMNJANOVIC, Aleksandar**

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may determine to switch from a first cell of a first distributed unit (DU) to a second cell of a second DU, wherein the first DU and the second DU are included in a set of DUs of a central unit (CU). The UE may communicate, using layer 1 (L1) or layer 2 (L2) signaling to change an activation status of at least one cell of the first DU or the second DU. The UE may switch from the first cell to the second cell in connection with the change to the activation status of the at least one cell of the first DU or the second DU. Numerous other aspects are provided.



No. of Pages : 45 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026560 A

(19) INDIA

(22) Date of filing of Application :10/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : TOPICAL ANTIVIRAL COMPOSITIONS COMPRISING HYALURONIC ACID AND CARRAGEENAN

(51) International classification	:A61K 087300, A61K 090000, A61K 317280, A61K 317310, A61K 473600	(71)Name of Applicant : <b>1)RICERFARMA S.R.L.</b> Address of Applicant :Via Egadi, 7 20144 Milano (MI) Italy
(31) Priority Document No	:102020000022042	(72)Name of Inventor : <b>1)CERINI, Roberto</b>
(32) Priority Date	:18/09/2020	
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2021/058491	
Filing Date	:17/09/2021	
(87) International Publication No	:WO 2022/058949	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are topical compositions comprising hyaluronic acid or salts thereof and iota-carrageenan, preferably in a mucoadhesive matrix containing ascorbyl palmitate and choline alfoscerate. The compositions according to the invention are useful for topical treatment of Herpesvirus infections.

No. of Pages : 14 No. of Claims : 9

(54) Title of the invention : TISSUE ANCHORING DEVICE

(51) International classification :A61B 170000,  
A61B 170400, A61B 171220, A61B 171280, A61B 173400

(31) Priority Document No :63/081386

(32) Priority Date :22/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IL2021/051152  
Filing Date :22/09/2021

(87) International Publication No :WO 2022/064492

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

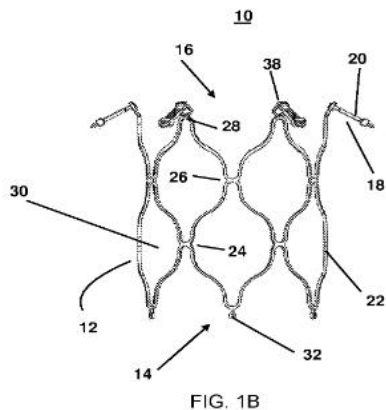
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)KARMELI, Ron**  
**3)FELD, Tanhum**

(57) Abstract :

A tissue anchoring device including an expandable frame and at least one anchor having a tissue penetrating portion. The anchor is attached to the expandable frame through a plurality of beams forming a frame or a tab that enable the anchor to elastically bend with respect to a longitudinal axis of the expandable frame.



No. of Pages : 17 No. of Claims : 13

(54) Title of the invention : SYSTEM AND METHOD FOR FLOW REGULATED DRIPPING

(51) International classification :A61B 180000,  
B65D 472000,  
H01M 080408,  
H01M 080495,  
H04L 493510

(31) Priority Document No :63/077746

(32) Priority Date :14/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/IL2021/051114  
Filing Date :13/09/2021

(87) International Publication No :WO 2022/054065

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

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

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**1)MILLER, Zvi**  
**2)SHANI, Uri**  
**3)DABACH, Sharon**

(57) Abstract :

An irrigation dripper, comprises an external elongated hollow structure having one or more rigid wall and one or more flexible walls, an internal elongated structure introduced into the external structure to form a pathway for flow between the internal structure and the walls, an inlet for providing water to the pathway, and an outlet on the external structure for allowing water to drip out of the pathway.

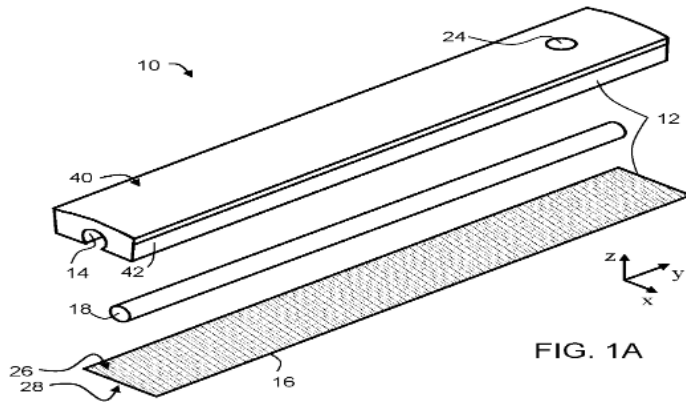


FIG. 1A

No. of Pages : 15 No. of Claims : 39

(54) Title of the invention : FREQUENCY RANGE 2 (FR2) SIDELINK DISCOVERY

(51) International classification	:C07K 143950, C12N 098800, H04W 080000, H04W 761400, H04W 921800	(71)Name of Applicant : <b>1)QUALCOMM INCORPORATED</b> Address of Applicant :ATTN: Internatinoal IP Admin 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:17/131223	(72)Name of Inventor : <b>1)DUTTA, Sourjya</b>
(32) Priority Date	:22/12/2020	<b>2)GULATI, Kapil</b>
(33) Name of priority country	:U.S.A.	<b>3)CHENG, Hong</b>
(86) International Application No	:PCT/US2021/057265	<b>4)LI, Junyi</b>
Filing Date	:29/10/2021	<b>5)SARKIS, Gabi</b>
(87) International Publication No	:WO 2022/139949	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Certain aspects of the present disclosure to techniques for sidelink discovery in millimeter wave (e.g., Frequency Range 2 (FR2), or 24.25 GHz to 52.6 GHz) bands. For example, the disclosed techniques provides generating a sidelink discovery message including device information of the UE and non-device information. The sidelink discovery message is outputted for transmission. A sidelink connection with a receiver (Rx) UE can then be established after the output of the sidelink discovery message. Very often, beam training is required for FR2 communications. After beam sweep, the transmitter (Tx) UE and the Rx UE become aware of the primary beam directions and need to discover each other on a device level, by associating a beam pair link to a peer UE. As FR2 link often have high overhead to establish and maintain, the disclosed techniques enables device level and service level discovery using the discover message.

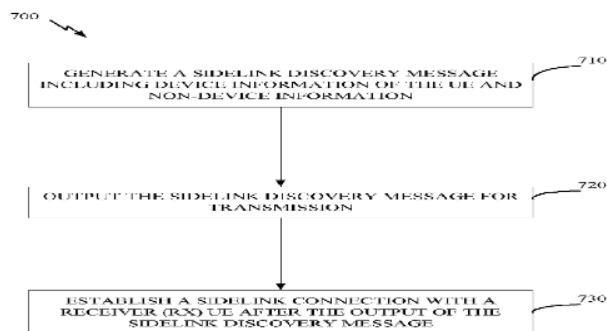


FIG. 7

No. of Pages : 38 No. of Claims : 30

(54) Title of the invention : ADAPTIVE DISCOVERY CHANNEL MEASUREMENT TIME CONFIGURATIONS

(51) International classification :H04L 010000, H04L 050000, H04L 090800, H04W 080000, H04W 241000

(31) Priority Document No :17/124354

(32) Priority Date :16/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/057423

Filing Date :29/10/2021

(87) International Publication No :WO 2022/132320

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)Name of Inventor :  
**1)LY, Hung Dinh**  
**2)HOSSEINI, Seyedkianoush**  
**3)YANG, Wei**

(57) Abstract :

The apparatus is configured to receive, from a second UE, a set of DMTCs, receive information indicating a DMTC of the set of DMTCs to be used for measuring discovery signals, and measure discovery signals received from the second UE based on the indicated DMTC. The apparatus may be configured to receive additional information regarding at least one of a carrier, a BWP, or a resource pool through which the discovery signals will be transmitted and a numerology used by the discovery signals and communicate through at least one of a PSSCH or PSCCH with the second UE through a first carrier, BWP, resource pool, or numerology and wherein the channel measurements performed on the discovery signals received from the second UE based on the indicated DMTC are performed on a second carrier, BWP, resource pool, or numerology.

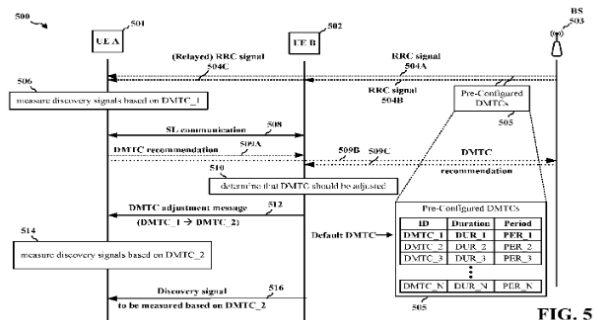


FIG. 5

No. of Pages : 38 No. of Claims : 30



(54) Title of the invention : HANDLING OF DATA TRANSMISSION

(51) International classification :G06T 090000,  
H04N 057650,  
H04W 120200,  
H04W 720400,  
H04W 721400

(31) Priority Document No :63/089312  
(32) Priority Date :08/10/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2021/058801  
Filing Date :27/09/2021  
(87) International Publication No :WO 2022/074502  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)NOKIA TECHNOLOGIES OY**  
Address of Applicant :Karakaari 7 02610 Espoo Finland

(72)Name of Inventor :  
**1)LASELVA, Daniela**  
**2)TURTINEN, Samuli**  
**3)KOSKINEN, Jussi-Pekka**  
**4)PRATAS, Nuno**

(57) Abstract :

Systems, methods, apparatuses, and computer program products for handling data transmission such as non-small data transmission (SDT) in conjunction with SDT. A method may include determining an availability of non-small data transmission, non-SDT, data. The method may also include indicating to a network element, a result of the determining.

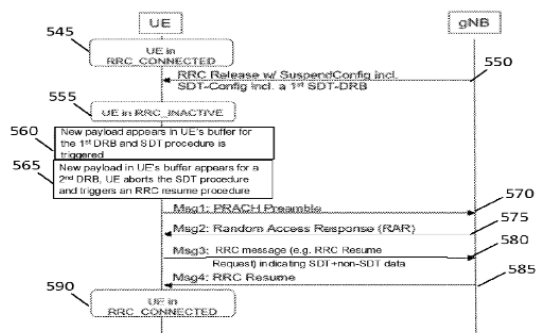


FIG. 5(b)

No. of Pages : 22 No. of Claims : 71

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026725 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METAL-CLAD COMPOSITE MOLDED WIRE STRANDED REINFORCED CORE OVERHEAD CONDUCTOR AND MANUFACTURING METHOD THEREFOR

(51) International classification	:B32B 150800, H01B 071800, H01B 090000, H01B 130200, H05K 010300	(71)Name of Applicant : <b>1)JIANGSU YIDING COMPOSITE TECHNOLOGY CO. LTD.</b> Address of Applicant :No.88 Kunlun Mountain Road, High And New Tech Industrial Development Zone Suqian, Jiangsu 223800 China
(31) Priority Document No	:202010994342.5	(72)Name of Inventor :
(32) Priority Date	:21/09/2020	<b>1)TONG, Wei</b>
(33) Name of priority country	:China	<b>2)TONG, Na</b>
(86) International Application No	:PCT/CN2020/130720	<b>3)HUANG, Guofei</b>
Filing Date	:23/11/2020	<b>4)XU, Fachun</b>
(87) International Publication No	:WO 2022/057081	<b>5)GONG, Yujie</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SONG, Ningning</b>
Filing Date	:NA	<b>7)BAO, Hui</b>
(62) Divisional to Application Number	:NA	<b>8)MAO, Shunzhuang</b>
Filing Date	:NA	<b>9)LI, Tao</b>
		<b>10)LIU, Xuedong</b>

(57) Abstract :

The present invention relates to the technical field of power transmission and distribution overhead conductors, and particularly relates to a metal-clad composite molded wire stranded reinforced core overhead conductor and a manufacturing method therefor. In the present invention, a metal tube clad material is used as a prepreg of a composite material to prepare a wire rod; the wire rod is then stranded, deformed and cured to form a reinforced core; and finally, an aluminum molded wire is stranded on an outer layer of the reinforced core to prepare the metal-clad composite molded wire stranded reinforced core overhead conductor. The present invention has the advantages that the reinforced core has a large bending moment and a large elastic modulus, and is less prone to breakage; the overhead conductor is convenient to wind, and same has a good sag characteristic, a good weather resistance and a good conductivity; and the whole manufacturing method is simple, efficient, economical and reliable.

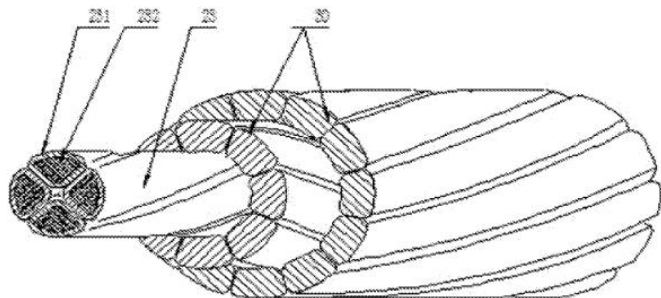


图 1

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026759 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : LIQUID AQUEOUS CLEANING COMPOSITION

(51) International classification	:A61K 390000, C07K 162400, C11D 033700, C11D 110000, H01L 210200	(71)Name of Applicant : <b>1)UNILEVER GLOBAL IP LIMITED</b> Address of Applicant :Port Sunlight Wirral Merseyside CH62 4ZD U.K.
(31) Priority Document No	:20206512.4	(72)Name of Inventor :
(32) Priority Date	:09/11/2020	<b>1)PAUL, Pintu</b>
(33) Name of priority country	:EPO	<b>2)CREMONESI, Claudia</b>
(86) International Application No	:PCT/EP2021/078941	<b>3)MADHAVAN, Uma</b>
Filing Date	:19/10/2021	<b>4)TAINO, Giovanni</b>
(87) International Publication No	:WO 2022/096260	
(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 a liquid aqueous cleaning composition comprising quaternary ammonium compound, hydrogen peroxide and organic acid having a pKa of from 1 to 5.5. The composition has a pH of 2 to 5 and a viscosity at 25°C of 1 to 1000 mPa.s @ 20 s-1 and the composition is free of anionic surfactant.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026760 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPOSITION

(51) International classification	:B65B 353800, C07D 981400, F16J 153240, G05D 010600, H01L 292400	(71)Name of Applicant : <b>1)UNILEVER GLOBAL IP LIMITED</b> Address of Applicant :Port Sunlight Wirral Merseyside CH62 4ZD U.K.
(31) Priority Document No	:202021044622	(72)Name of Inventor :
(32) Priority Date	:13/10/2020	<b>1)CHATTERJEE, Debosree</b>
(33) Name of priority country	:India	<b>2)RAJENDIRAN, Ganesan</b>
(86) International Application No	:PCT/EP2021/075787	
Filing Date	:20/09/2021	
(87) International Publication No	:WO 2022/078714	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A powder premix for forming a stable liquid laundry detergent composition when mixed with water, said premix comprising from 30-80% wt. of the premix a surfactant, and 8 to 60% wt. of the premix a water-soluble salt, wherein the surfactant comprises a sulphated surfactant, wherein the water-soluble salt and surfactant together comprise at least 70% wt. of the composition, wherein the weight ratio between the sulphated surfactant and the water-soluble salt is at least 0.5:1 and wherein the sulphated surfactant is selected from ethoxylated alkyl sulphates, primary alcohol sulphates and mixtures thereof.

No. of Pages : 35 No. of Claims : 9

(54) Title of the invention : HARQ TIMING FOR MULTI-PDSCH GRANT

(51) International classification	:H04B 172400, H04L 011800, H04W 162800, H04W 363200, H04W 721400	(71)Name of Applicant : <b>1)QUALCOMM INCORPORATED</b> Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:17/127870	(72)Name of Inventor : <b>1)TIAN, Qingjiang</b>
(32) Priority Date	:18/12/2020	<b>2)SUN, Jing</b>
(33) Name of priority country	:U.S.A.	<b>3)ZHANG, Xiaoxia</b>
(86) International Application No	:PCT/US2021/057891	<b>4)FAN, Zhifei</b>
Filing Date	:03/11/2021	<b>5)LUO, Tao</b>
(87) International Publication No	:WO 2022/132326	<b>6)NAM, Wooseok</b>
(61) Patent of Addition to Application Number	:NA	<b>7)ZEWAIL, Ahmed Abdelaziz Ibrahim Abdelaziz</b>
Filing Date	:NA	<b>8)NAGARAJAN, Anantha Krishna Karthik</b>
(62) Divisional to Application Number	:NA	<b>9)MA, Jun</b>
Filing Date	:NA	

(57) Abstract :

In an aspect of the disclosure, a method, a computer-readable medium, and an apparatus are provided. The apparatus may be a user equipment (UE). The apparatus may receive, from a base station via a DCI message, an indication of at least one K1 value corresponding to a plurality of physical downlink shared channel (PDSCH) transmissions over a plurality of PDSCH resources. The DCI message may comprise scheduling information for the plurality of PDSCH transmissions. The at least one K1 value may be associated with at least one physical uplink control channel (PUCCH) resource and indicative of a PDSCH-to-hybrid automatic repeat request (HARQ) timing. The apparatus may transmit, to the base station via the at least one PUCCH resource, at least one acknowledgment/negative-acknowledgment (ACK/NACK) indication associated with the at least one K1 value and corresponding to the plurality of PDSCH resources.

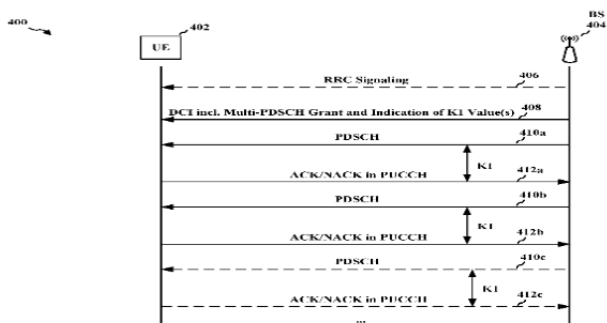


FIG. 4

No. of Pages : 42 No. of Claims : 30

(54) Title of the invention : FREQUENCY HOPPING COORDINATION AND CONFIGURATION FOR SIDELINK COMMUNICATION

(51) International classification :H04B 017130, H04B 017143, H04B 017150, H04W 720400, H04W 921800

(31) Priority Document No :20200100733

(32) Priority Date :16/12/2020

(33) Name of priority country :Greece

(86) International Application No :PCT/US2021/072817  
Filing Date :09/12/2021

(87) International Publication No :WO 2022/133401

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

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

(71)Name of Applicant :  
**1)QUALCOMM INCORPORATED**  
 Address of Applicant :ATTN: International IP Administration  
 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.

(72)Name of Inventor :  
**1)MANOLAKOS, Alexandros**  
**2)YANG, Wei**  
**3)HUANG, Yi**  
**4)HOSSEINI, Seyedkianoush**

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a first user equipment (UE) may receive, from a base station, a set of sidelink frequency hopping parameters. The first UE may transmit, to a second UE via a sidelink interface, a frequency hopping configuration for sidelink reference signaling by the second UE, wherein the frequency hopping configuration is based at least in part on the set of sidelink frequency hopping parameters. Numerous other aspects are provided.

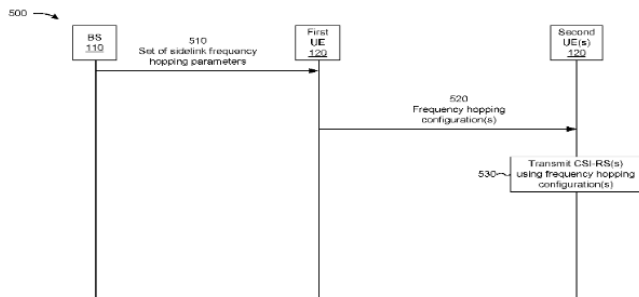


FIG. 5

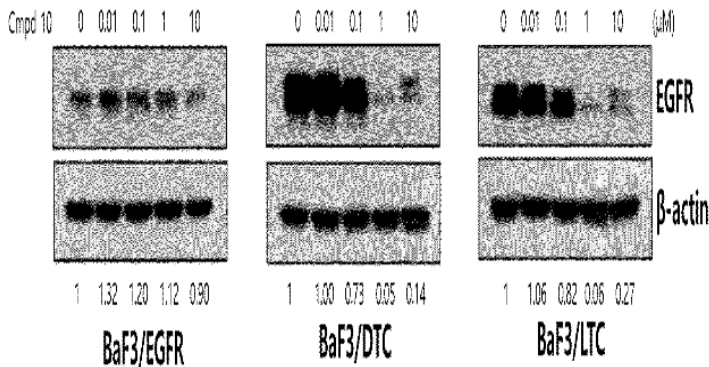
No. of Pages : 38 No. of Claims : 30

(54) Title of the invention : COMPOUNDS FOR SUPPRESSING EGFR MUTANT CANCER AND PHARMACEUTICAL USE THEREOF

(51) International classification	:A61K 315060, A61P 090000, A61P 350000, A61P 370000, A61P 370200	(71)Name of Applicant : <b>1)J2H BIOTECH INC.</b> Address of Applicant :210ho, 2F., Bdong, 142-10, Saneop-ro 156beon-gil, Gwonseon-gu, Suwon-Si, Gyeonggi-do 16648 Republic of Korea
(31) Priority Document No	:10-2020-0117186	(72)Name of Inventor :
(32) Priority Date	:11/09/2020	<b>1)RYU, Hyung-Chul</b>
(33) Name of priority country	:Republic of Korea	<b>2)KIM, Jae-Sun</b>
(86) International Application No	:PCT/KR2021/011898	<b>3)LIM, Jee-Woong</b>
Filing Date	:02/09/2021	<b>4)LEE, Ju Young</b>
(87) International Publication No	:WO 2022/055181	<b>5)CHOI, Kwanghyun</b>
(61) Patent of Addition to Application Number	:NA	<b>6)RAJESH, Rengasamy</b>
Filing Date	:NA	<b>7)CHANG, Duk-Ho</b>
(62) Divisional to Application Number	:NA	<b>8)GWON, Hyeok Jun</b>
Filing Date	:NA	<b>9)KANG, Hyo Jin</b>

## (57) Abstract :

The present disclosure provides a compound of a specific chemical structure or a pharmaceutically acceptable salt thereof, which has the activity of inhibiting and/or degrading mutant EGFR protein. The present disclosure also provides a composition comprising such a compound or a pharmaceutically acceptable salt thereof. The present disclosure provides a pharmaceutical use of a compound according to the present disclosure, a salt thereof, and a composition comprising same for the treatment or prevention of cancer with EGFR mutation, especially lung cancer. The present disclosure also provides a method for treatment or prevention of EGFR mutation cancer, especially lung cancer, the method comprising administering an effective amount of the compound according to the present invention, a salt thereof, or a composition containing same to a subject in need of treatment.



No. of Pages : 203 No. of Claims : 13

(54) Title of the invention : REPETITIVE TRANSMISSION METHOD AND APPARATUS FOR CONFIGURED GRANT, DEVICE, AND READABLE STORAGE MEDIUM

(51) International classification :A61B 012400, H04L 010800, H04L 011800, H04W 720400, H04W 721400

(31) Priority Document No :202011105261.1

(32) Priority Date :15/10/2020

(33) Name of priority country :China

(86) International Application No :PCT/CN2021/123820  
Filing Date :14/10/2021

(87) International Publication No :WO 2022/078451

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

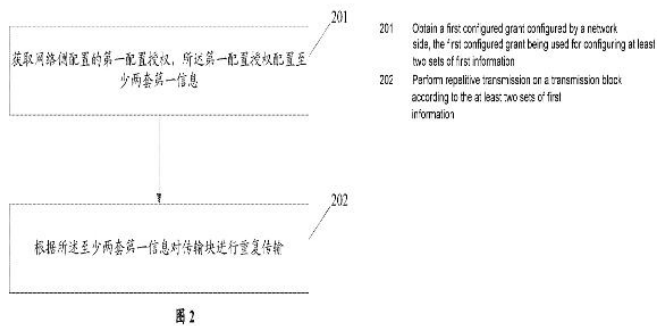
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)VIVO MOBILE COMMUNICATION CO., LTD.**  
Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China

(72)Name of Inventor :  
**1)SUN, Rongrong**  
**2)SUN, Peng**  
**3)LIU, Hao**

(57) Abstract :

Disclosed in the present application are a repetitive transmission method and apparatus for a configured grant, a device, and a readable storage medium. The method comprises: obtaining a first configured grant configured by a network side, the first configured grant being used for configuring at least two sets of first information; and performing repetitive transmission on a transmission block according to the at least two sets of first information.



No. of Pages : 36 No. of Claims : 14



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026856 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND DEVICE FOR SENDING USER INFORMATION, AND TERMINAL

<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>:G06F 211000, G06Q 203200, H04M 017245, H04W 127100, H04W 522400</p> <p>:202011141180.7</p> <p>:22/10/2020</p> <p>:China</p> <p>:PCT/CN2021/124854</p> <p>:20/10/2021</p> <p>:WO 2022/083612</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)VIVO MOBILE COMMUNICATION CO., LTD.</b></p> <p>Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China</p> <p>(72)Name of Inventor :</p> <p><b>1)CHEN, Li</b></p>
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(57) Abstract :

Disclosed in the present application are a method and device for sending user information, and a terminal. The sending method comprises: initializing target user information transmission when a preset condition for sending the user information is met.

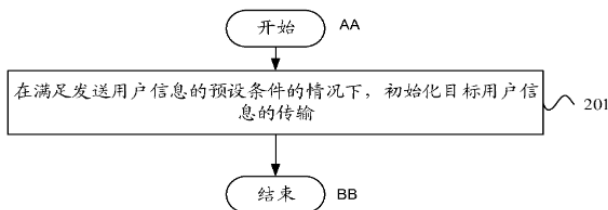


图 2

201 Initialize target user information transmission when a preset condition for sending the user information is met

AA Start

BB End

No. of Pages : 33 No. of Claims : 16

(54) Title of the invention : HYBRID AUTOMATIC REPEAT REQUEST FEEDBACK RESOURCE CONFIGURATION FOR SIDELINK WITH CARRIER AGGREGATION

(51) International classification :H04L 011600, H04L 011800, H04L 050000, H04W 720400, H04W 921800

(31) Priority Document No :17/125849

(32) Priority Date :17/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/072436  
Filing Date :16/11/2021

(87) International Publication No :WO 2022/133376

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

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

(71)Name of Applicant :  
**1)QUALCOMM INCORPORATED**  
Address of Applicant :5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.

(72)Name of Inventor :  
**1)HOSSEINI, Seyedkianoush**  
**2)YANG, Wei**

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may receive a plurality of physical sidelink shared channel (PSSCH) communications on a plurality of sidelink component carriers of a sidelink network having carrier aggregation. The UE may transmit, using a set of resources on a single component carrier of the plurality of sidelink component carriers, a plurality of hybrid automatic repeat request acknowledgement feedback indications corresponding to the plurality of PSSCH communications. Numerous other aspects are provided.

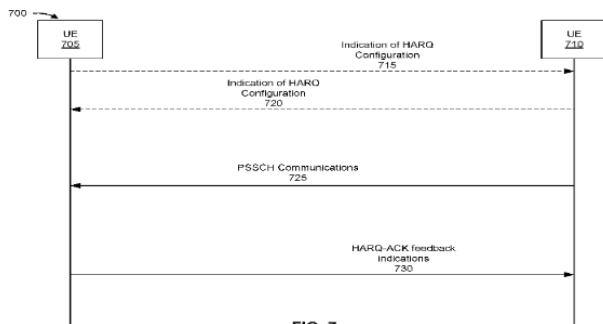


FIG. 7

No. of Pages : 42 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327026887 A

(19) INDIA

(22) Date of filing of Application :11/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : ELECTRICAL BOX, BATTERY, AND POWER UTILIZATION DEVICE

(51) International classification :B62M 071200, F01K  
230600, G01R  
313600, H02G  
030800, H02G  
031200

(31) Priority Document No :202022222865.6

(32) Priority Date :30/09/2020

(33) Name of priority country :China

(86) International Application No :PCT/CN2021/112490  
Filing Date :13/08/2021

(87) International Publication No :WO 2022/068422

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

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

(71)Name of Applicant :

**1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED**

Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 China

(72)Name of Inventor :

**1)LV, Juanxia**

**2)JI, Jinqing**

**3)QIAN, Mu**

**4)SUN, Zhanyu**

(57) Abstract :

The present application relates to the field of batteries, and provides an electrical box, a battery, and a power utilization device. The electrical box is applied to the battery; the battery comprises battery cells; the electrical box comprises a box body, a current interrupter, a first connector, and a switch; the current interrupter is provided in the box body and configured to be disconnected in the case of overcurrent; the first connector is used for outputting the electric energy of the battery; the switch is provided in the box body and used for controlling the connections and disconnections between the battery cells and the first connector; the first connector is fixed on the box body; the first connector comprises a first terminal and a second terminal that are used for outputting the electric energy of the battery; and the first terminal is electrically connected to the current interrupter, and the second terminal is electrically connected to the switch. The first connector capable of outputting the electric energy of the battery and the box body of the electrical box are integrated into a module, and a long conductive structure does not need to be provided between the electrical box and the first connector, and thus, the occupied space is reduced, the space utilization rate is improved, and the first connector and the electrical box do not need to be connected by means of the long conductive structure.

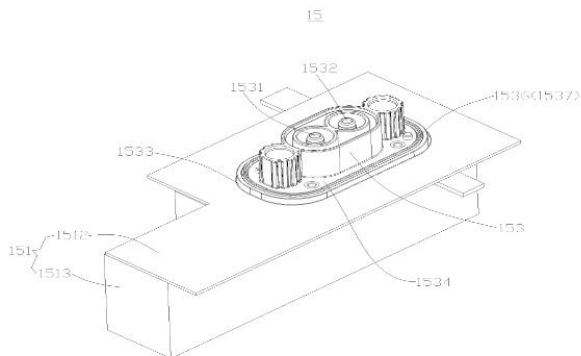


图 7

No. of Pages : 15 No. of Claims : 12

(54) Title of the invention : METHOD AND WIRELESS COMMUNICATION TERMINAL FOR TRANSMITTING/RECEIVING FRAME IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :G06Q 203200, H01Q 012400, H04B 010000, H04L 272600, H04W 521400

(31) Priority Document No :10-2020-0130622

(32) Priority Date :08/10/2020

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2021/013948

Filing Date :08/10/2021

(87) International Publication No :WO 2022/075821

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

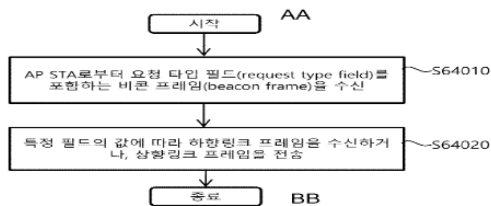
Filing Date :NA

(71)Name of Applicant :  
**1)WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC.**  
 Address of Applicant :5Fl., 216 Hwangsaoul-ro, Bundang-gu Seongnam-si Gyeonggi-do 13595 Republic of Korea

(72)Name of Inventor :  
**1)KO, Geonjung**  
**2)SON, Juhyung**  
**3)KIM, Sanghyun**  
**4)HONG, Hanseul**  
**5)KWAK, Jinsam**

(57) Abstract :

Disclosed is a method for transmitting a frame of a wireless communication system. A non-AP STA receives a beacon frame comprising a request type field from an AP and can receive a downlink frame or transmit an uplink frame in accordance with a specific field value included in the beacon frame. Here, the request type field comprises a specific field for indicating a target wake time (TWT) for a low latency operation, and, if the value of the specific field is set as a first specific value, a broadcast TWT service period (SP) is a TWT SP for the low latency operation.



S64010 ... Receive beacon frame comprising request type field from AP STA

S64020 ... Receive downlink frame or transmit uplink frame in accordance with specific field value

AA ... Start

BB ... End

No. of Pages : 128 No. of Claims : 22

(54) Title of the invention : PLAIN BEARING ARRANGEMENT AND NACELLE EQUIPPED WITH A PLAIN BEARING ARRANGEMENT FOR A WIND TURBINE, AND WIND TURBINE

(51) International classification :F03D 010600, F03D 070200, F03D 092500, F03D 170000, F03D 807000

(31) Priority Document No :10 2020 126 284.1

(32) Priority Date :07/10/2020

(33) Name of priority country :Germany

(86) International Application No :PCT/AT2021/060360  
 Filing Date :05/10/2021

(87) International Publication No :WO 2022/073050

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

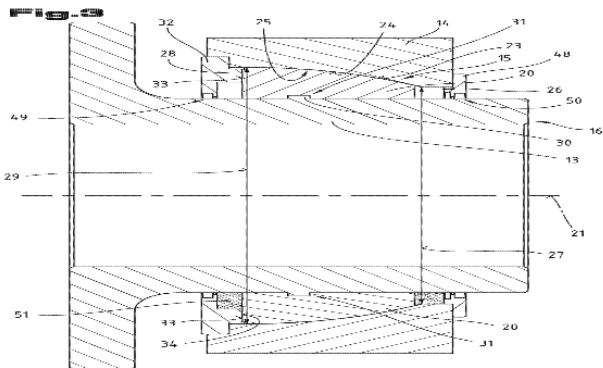
(62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
**1)MIBA GLEITLAGER AUSTRIA GMBH**  
 Address of Applicant :Dr. Mitterbauer-Straße 3 4663 Laakirchen Austria

(72)Name of Inventor :  
**1)HÖLZL, Johannes, Sebastian**  
**2)WALDL, Albert**  
**3)LAUBICHLER, Patrick**

(57) Abstract :

The invention relates to a plain bearing arrangement (9) comprising: - an inner ring element (13); - an outer ring element (14); - at least one plain bearing element (15) arranged between the inner ring element (13) and the outer ring element (14), the plain bearing element (15) comprising at least two plain bearing pads (20), wherein the individual plain bearing pads (20) each have a bearing surface (23) which has the basic shape of a spherical cap.



No. of Pages : 18 No. of Claims : 23

(54) Title of the invention : VALVE

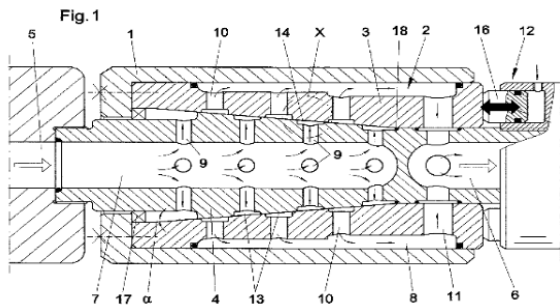
(51) International classification	:B65B 353800, C07D 981400, F16J 153240, G05D 010600, H01L 292400
(31) Priority Document No	:10 2021 004 243.3
(32) Priority Date	:20/08/2021
(33) Name of priority country	:Germany
(86) International Application No	:PCT/IB2022/056990
Filing Date	:28/07/2022
(87) International Publication No	:WO 2023/021349
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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**1)JARCHAU, Michael**

(57) Abstract :

A valve comprising: a housing (1); a valve body (2) having a fluid inlet (5) and a fluid outlet (6), the valve body (2) comprising a first valve element (3) and a second valve element (4) arranged in the housing (1); a gap (14) being formed between the valve elements (3, 4), the first valve element (3) being conformed as a sleeve (3) with an inner surface that tapers at least in sections towards the fluid outlet (6), the second valve element (4) being conformed as a cone (4) mounted in the sleeve (3), with the same inclination as the inner surface of the sleeve (3) so as to form the gap (14), an annular space (8) open to the fluid outlet (6) is formed between the sleeve (3) and the inner surface of the housing (1), the sleeve (3) has through holes (10) towards the annular space (8) and the cone (4) has through openings (9) towards the fluid inlet (5), the sleeve (3) and the cone (4) being axially adjustable relative to one another.



No. of Pages : 12 No. of Claims : 13

(54) Title of the invention : TECHNIQUES FOR BEAM SHAPING FOR IN-BAND INTERFERENCE MITIGATION IN LARGE BANDWIDTH MILLIMETER WAVE SYSTEMS

(51) International classification :G01S 139310, H04B 070408, H04B 070456, H04B 070600, H04W 282000

(31) Priority Document No :17/116247

(32) Priority Date :09/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/072327  
Filing Date :10/11/2021

(87) International Publication No :WO 2022/126056

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

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

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(72)Name of Inventor :  
**1)RAGHAVAN, Vasanthan**  
**2)LI, Junyi**  
**3)CEZANNE, Juergen**

(57) Abstract :

Methods, systems, and devices for wireless communications are described. A first base station may receive, from a plurality of user equipments (UEs), a plurality of uplink signals that include feedback information for the plurality of UEs. A first UE of the plurality of UEs may be associated with the first base station and a second UE of the plurality of UEs may be associated with a second base station. The first base station may modify a plurality of sets of beam weights for a plurality of downlink signals, where each modified set of beam weights corresponds to a respective downlink signal of the plurality of downlink signals. The first base station may transmit, to the first UE, a first downlink signal of the plurality of downlink signals using a first modified set of beam weights of the plurality of sets of beam weights.

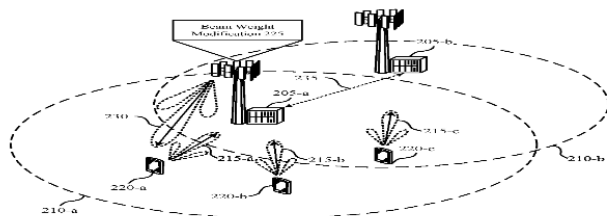


FIG. 2

No. of Pages : 58 No. of Claims : 30

(54) Title of the invention : OBTAINING UPLINK RESOURCES FOR LOGICAL CHANNEL WITHOUT ASSOCIATED SCHEDULING REQUEST CONFIGURATION

(51) International classification :H04B 011000, H04L 450000, H04W 282000, H04W 721200, H04W 740800

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2020/137524  
Filing Date :18/12/2020

(87) International Publication No :WO 2022/126577

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

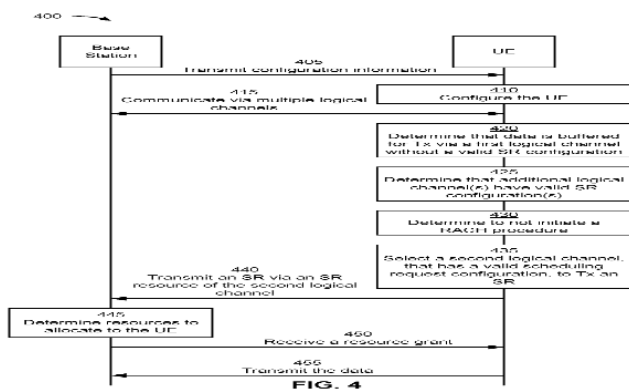
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
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**2)TRIPATHI, Ambarish**  
**3)WU, Peng**  
**4)DANG, Zhibin**  
**5)NGUYEN, Bao Vinh**  
**6)MAHESHWARI, Shailesh**

(57) Abstract :

Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may determine that data is buffered for transmission via a first logical channel that does not have a valid scheduling request configuration. The UE may transmit, via a scheduling request resource of a second logical channel that has a valid scheduling request configuration, a scheduling request for resources to transmit the data buffered for transmission via the first logical channel. Numerous other aspects are described.



No. of Pages : 35 No. of Claims : 30



(54) Title of the invention : SELF-LOCKING NIPPLE FOR SPOKES OF SPOKED WHEELS AND METHOD FOR MANUFACTURING SUCH A NIPPLE

(51) International classification :A61J 090000, B60B 010000, B60B 010400, B60B 210600, B60B 310200

(31) Priority Document No :102020000026849

(32) Priority Date :10/11/2020

(33) Name of priority country :Italy

(86) International Application No :PCT/IB2021/059934  
Filing Date :27/10/2021

(87) International Publication No :WO 2022/101730

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

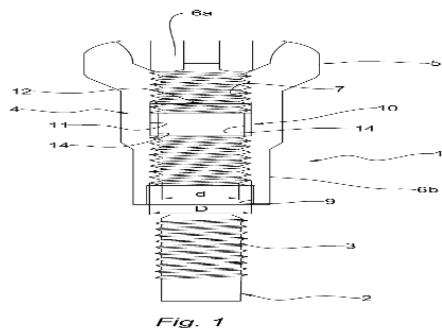
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ALPINA RAGGI S.P.A.**  
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(72)Name of Inventor :  
**1)CAPPELLOTTO, Guido**

(57) Abstract :

A nipple for spokes of spoked wheels includes a rod with an axial development, a threaded hole which is formed axially in the rod, the thread of the hole defining a root diameter and a crest diameter, a head which is widened with respect to the rod and a deformable insert which is inserted in a seat which is axially aligned with the hole and which is constructed in an axially intermediate position thereof. The insert, at least when it is inserted in the seat, has a passage for a threaded spoke end, the internal diameter of which is less than the root diameter of the thread of the hole so as to interfere with the thread of the spoke when it is screwed into the threaded hole.



No. of Pages : 9 No. of Claims : 19

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING REFERENCE SIGNAL WITH LOW PEAK AVERAGE POWER RATIO

(51) International classification :H04B 071850, H04B 072600, H04L 272600, H04N 191170, H04N 214363

(31) Priority Document No :17/064098

(32) Priority Date :06/10/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CN2021/085833  
Filing Date :07/04/2021

(87) International Publication No :WO 2022/073327

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

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

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**1)FERDINAND, Nuwan Suresh**  
**2)JIA, Ming**  
**3)MA, Jianglei**  
**4)ABDOLI, Javad**

(57) Abstract :

A reference signaling scheme is provided that is based on the use of a Zadoff Chu sequence with cyclic repetition, optionally code division multiplexing precoding, together with frequency domain spectral shaping (FDSS). A specific pulse shape design for the FDSS part of the reference signal scheme in some embodiments involves the use of a raised cosine pulse raised to the power of  $\beta$ . The new solution for generating reference signals has a Low peak average power ratio that matches the PAPR of SC-OQAM, good channel estimation performance, and the ability to implement CDM in the frequency domain to increase multiplexing gain.

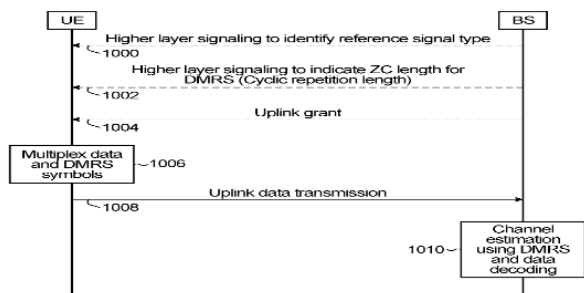


FIG. 8

No. of Pages : 37 No. of Claims : 17

(54) Title of the invention : WIRELESS ACCESS NODE DEVICE AND INTERFACE METHOD PERFORMED BY WIRELESS ACCESS NODE DEVICE

(51) International classification :H04L 051400, H04L 476275, H04W 280200, H04W 282400, H04W 881600

(31) Priority Document No :10-2020-0135271

(32) Priority Date :19/10/2020

(33) Name of priority country :Republic of Korea

(86) International Application No :PCT/KR2021/013786  
 Filing Date :07/10/2021

(87) International Publication No :WO 2022/086000

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

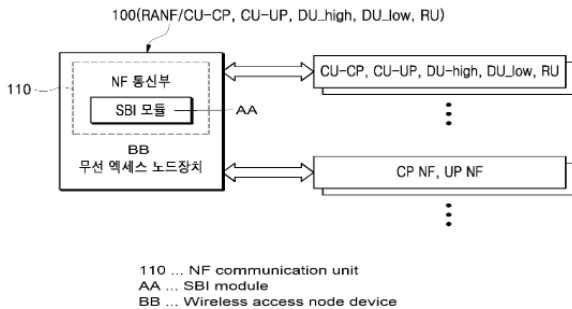
(62) Divisional to Application Number :NA  
 Filing Date :NA

(71)Name of Applicant :  
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**2)LEE, Seong Jun**  
**3)CHOI, Hyun Jun**

(57) Abstract :

The present invention proposes a method for uniformly transforming, for NF communication, functions of all equipment (RAN and Core) ranging from a 5G Core to an RAN, through the realization of specific techniques to evolve functions of RAN equipment into a 5G architecture and to implement the functions for NF communication.



No. of Pages : 20 No. of Claims : 13

(54) Title of the invention : VASCULAR ACCESS KIT

(51) International classification :A61M 013600,  
A61M 250600,  
A61M 390200, A61P  
090000, A61P  
310000

(31) Priority Document No :PCT/US2020/055991

(32) Priority Date :16/10/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/027280  
Filing Date :14/04/2021

(87) International Publication No :WO 2022/081201

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

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

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)TAL, Michael Gabriel**

(57) Abstract :

Vascular access kit comprising a guidewire and a needle. The guidewire includes elastic core member ending with guidewire tip segment. Guidewire tip segment comprising widening, guidewire tip rear portion extending distally to the widening, and guidewire tip front portion extending distally from the widening. The needle comprising a beveled opening greater in length than guidewire tip front portion. Guidewire tip rear portion includes a flexing portion configured for causing localized buckling and/or bending for inclining guidewire tip front portion relative to guidewire tip rear portion, in needle beveled opening, when the core member is axially compressed.

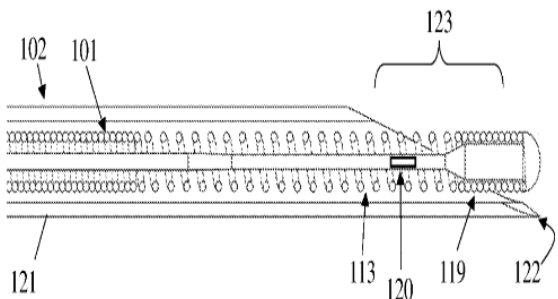


FIG. 6B

No. of Pages : 20 No. of Claims : 32

(54) Title of the invention : QUANTUM COMPUTING WITH KERNEL METHODS FOR MACHINE LEARNING

(51) International classification :B82Y 100000, G06N 050000, G06N 100000, G06N 200000, G06N 201000

(31) Priority Document No :63/093611

(32) Priority Date :19/10/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/055545  
Filing Date :19/10/2021

(87) International Publication No :WO 2022/086918

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

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

(71)Name of Applicant :  
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(72)Name of Inventor :  
**1)MCCLEAN, Jarrod Ryan**  
**2)HUANG, Hsin-Yuan**

(57) Abstract :

Methods, systems, and apparatus for quantum machine learning. In one aspect, a method includes obtaining, by a quantum computing device, a training dataset of quantum data points; computing, by the quantum computing device, a kernel matrix that represents a similarity between the quantum data points included in the training dataset, comprising computing a value of a kernel function for each pair of quantum data points in the training dataset, wherein the kernel function is based on reduced density matrices for the quantum data points; and providing, by the quantum computing device, the kernel matrix to a classical processor, wherein the classical processor performs a training algorithm using the kernel matrix to construct a machine learning model.

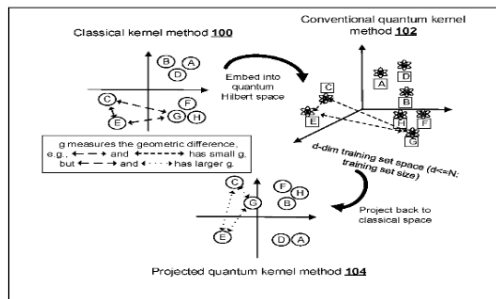


FIG. 1

No. of Pages : 28 No. of Claims : 24

(54) Title of the invention : SIGNAL TRANSMISSION METHOD AND APPARATUS, ACCESS NODE, PROCESSING UNIT, SYSTEM AND MEDIUM

(51) International classification :G05D 010200, G06Q 101000, G11B 070070, H04L 250200, H04N 214620

(31) Priority Document No :202010982325.X

(32) Priority Date :17/09/2020

(33) Name of priority country :China

(86) International Application No :PCT/CN2021/118097

Filing Date :14/09/2021

(87) International Publication No :WO 2022/057777

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

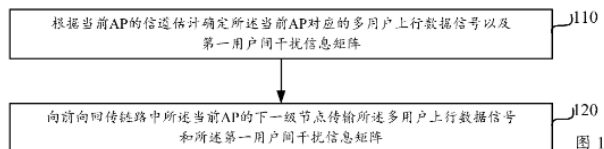
Filing Date :NA

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**1)MA, Yihua**  
**2)CHEN, Yijian**  
**3)YUAN, Zhifeng**  
**4)YU, Guanghui**

(57) Abstract :

Disclosed are a signal transmission method and apparatus, an access node, a processing unit, a system and a medium. The signal transmission method comprises: according to a channel estimation of the current AP, determining a multi-user uplink data signal and a first inter-user interference information matrix which correspond to the current AP; and transmitting the multi-user uplink data signal and the first inter-user interference information matrix to the next-level node of the current AP in a front-haul link.



- 110 According to a channel estimation of the current AP, determine a multi-user uplink data signal and a first inter-user interference information matrix which correspond to the current AP
- 120 Transmit the multi-user uplink data signal and the first inter-user interference information matrix to the next-level node of the current AP in a front-haul link

No. of Pages : 44 No. of Claims : 25

(54) Title of the invention : INTERFERENCE MANAGEMENT TECHNIQUES

(51) International classification :H04B 173450,  
H04W 160400,  
H04W 161400,  
H04W 240200,  
H04W 720800

(31) Priority Document No :17/116910  
(32) Priority Date :09/12/2020  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2021/072727  
Filing Date :03/12/2021  
(87) International Publication No :WO 2022/126078  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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**3)TOUBOUL, Assaf**  
**4)YUNUSOV, David**  
**5)BERGER, Peer**  
**6)LEVITSKY, Michael**  
**7)BERLINER, Ran**  
**8)LEVY, Sharon**  
**9)ZACH, Noam**

(57) Abstract :

Disclosed are techniques for wireless communication. In some aspects, a base station (BS) may determine a first planned transmit beam configuration of the first BS. The BS may obtain a second planned transmit beam configuration of a second BS. The BS may determine that a first planned transmit beam of the first planned transmit beam configuration will interfere with a second planned transmit beam of the second planned transmit beam configuration. The BS may modify the first planned transmit beam, the second planned transmit beam, or both, based on the interference determination.

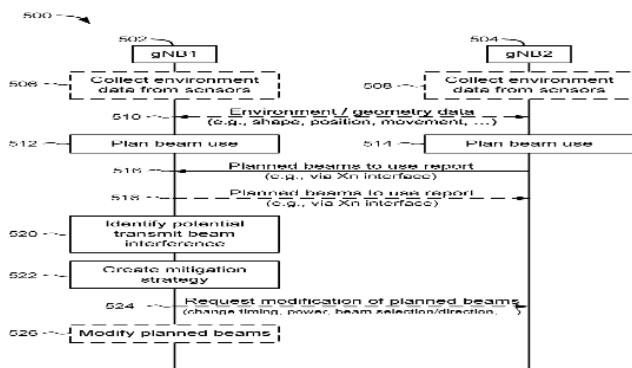


FIG. 5

No. of Pages : 48 No. of Claims : 28

(54) Title of the invention : OMNIDIRECTIONAL LOCOMOTION SYSTEM WITH FULL RANGE OF MOTION IN MULTIPLE DEGREES OF FREEDOM FOR WALKABLE OR INTERACTIVE VIRTUAL REALITY

(51) International classification :G01P 151800, G06F 030100, H04N 052250, H04N 212343, H04N 212350

(31) Priority Document No :63/083716

(32) Priority Date :25/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/052109  
Filing Date :25/09/2021

(87) International Publication No :WO 2022/067139

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

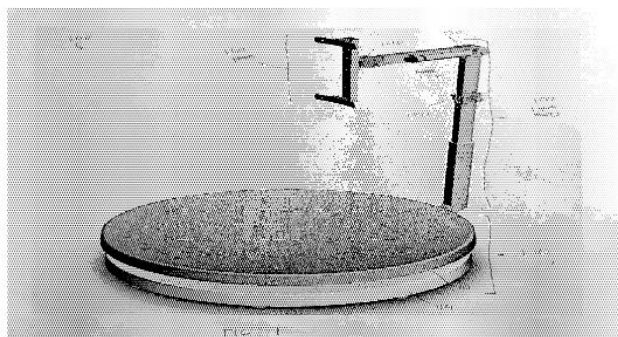
(62) Divisional to Application Number :NA  
Filing Date :NA

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**2)SHUFFIELD, James Douglas**  
**3)BENDER, Ronald Kurt**  
**4)HERNANDEZ, David**  
**5)SLAYTER, Cameron**

(57) Abstract :

An omnidirectional locomotion system that can be used with virtual reality (VR) environment technology includes at least a base portion, an articulating arm extending upward from a platform of the base portion, and a rotation mechanism rotatably coupling the base portion to the articulating arm. The platform of the base portion is configured to support a user and the articulating arm can include a harness support configured to attach to a harness worn by the user. The articulating arm comprises at least a first link, a second link, and a hinged joint coupled between the first link and the second link. The rotation mechanism can permit the articulating arm to rotate through 360-degrees around an outer circumference of the base portion; the hinged joint can permit the articulating arm to translate horizontally or vertically with respect to the base portion.



No. of Pages : 44 No. of Claims : 40



(54) Title of the invention : METHOD AND APPARATUSES FOR EXTENDING UE FAST DORMANCY AT UPPER LAYERS

(51) International classification :A61K 080400, A61P 170000, H01L 298610, H04W 280200, H04W 520200

(31) Priority Document No :17/116438

(32) Priority Date :09/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/058992

Filing Date :11/11/2021

(87) International Publication No :WO 2022/125261

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

Filing Date :NA

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(72)Name of Inventor :  
**1)ZHANG, Juan**  
**2)PAYYAPPILLY, Ajith Tom**  
**3)CHIN, Tom**

(57) Abstract :

A method includes monitoring (902), at an upper layer of the UE, PDU activity for one or more PDU sessions that are associated with one or more DNNs. The method includes determining (910) that each of the one or more PDU sessions has a period of inactivity based on at least one of an expiration of an activity check timer, accumulated inactivity cycles, or a dormancy indication associated with each of the one or more PDU sessions. The method includes indicating (912), to a lower layer of the UE, to provide UE assistance information to a base station for a RRC connection release between the UE and the base station.

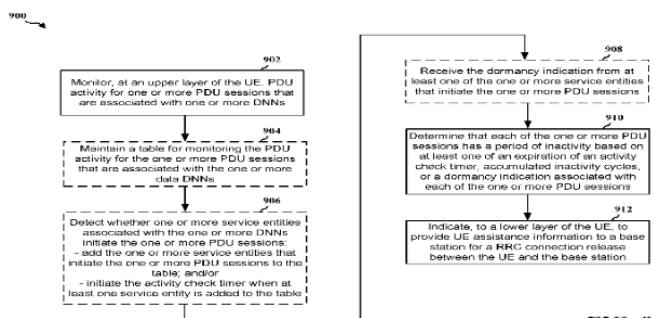


FIG. 9

No. of Pages : 50 No. of Claims : 30

(54) Title of the invention : SUPPORT DEVICE, SUPPORT METHOD, AND SUPPORT PROGRAM

(51) International classification :E02D 170400,  
G05B 190500, G06Q  
100600, H04L  
051400, H04L  
453000

(31) Priority Document No :2020-173200

(32) Priority Date :14/10/2020

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2021/033752  
Filing Date :14/09/2021

(87) International Publication No :WO 2022/080068

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

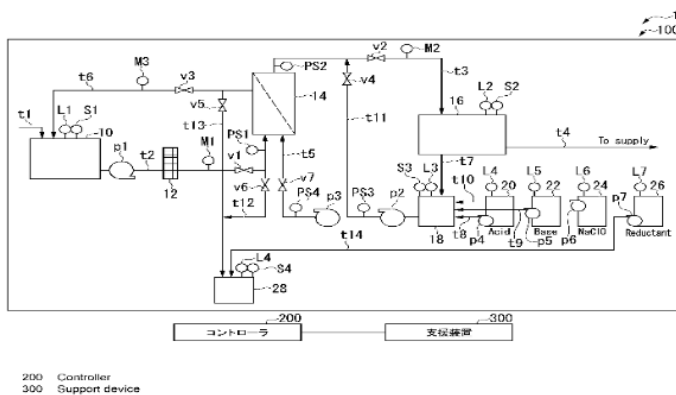
(62) Divisional to Application Number :NA  
Filing Date :NA

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**1)MATSUI Yasuhiro**  
**2)KIMURA Ryota**  
**3)YOSHIDA Hideki**

(57) Abstract :

A support device comprising: an acquisition unit that acquires data indicating water quality information for untreated water, the pressure for feeding the untreated water into a membrane filtration device, the trans-membrane pressure of a filtration membrane, the flux of the filtration membrane, and a frequency and a cleaning condition with which the filtration membrane is cleaned with cleaning water; and an output unit that uses a learned determination model obtained by carrying out a training process using the data obtained by the acquisition unit, and uses the determination model to output, from the data obtained by the acquisition unit and indicating the water quality information for the untreated water, the pressure for feeding the untreated water into the membrane filtration device, and the trans-membrane pressure of the filtration membrane, an optimal value for the present flux and a frequency and a cleaning condition with which to clean the membrane filtration device with the cleaning water in the future.



No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327027380 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : BEAM-SPECIFIC RSSI AND CO FOR NR-U

(51) International classification :H04B 070600, H04B 070800, H04B 173180, H04L 011600, H04W 523600

(31) Priority Document No :17/124108

(32) Priority Date :16/12/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/072962  
Filing Date :16/12/2021

(87) International Publication No :WO 2022/133472

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

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

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**1)ZHANG, Xiaoxia**

**2)OZTURK, Ozcan**

**3)SUN, Jing**

(57) Abstract :

Wireless communication techniques for utilizing beam-specific RSSI and CO in NR-U wireless communication are discussed. A UE may receive from a base station a first set of one or more RSSI measurement configuration parameters associated with a first reception beam as well as a second set of one or more RSSI measurement configuration parameters associated with a second reception beam. The second reception beam may be different than the first reception beam. The UE may transmit a report including at least one of a first indication of one or more RSSI measurements performed using the first reception beam based, at least in part, on the first set of one or more RSSI measurement configuration parameters or a second indication of one or more other RSSI measurements performed using the second reception beam based, at least in part, on the second set of one or more RSSI measurement configuration parameters.

No. of Pages : 36 No. of Claims : 30

(54) Title of the invention : ABSORBENT ARTICLE

(51) International classification :A61F 131500, A61F 134900, A61F 135110, A61F 135600, A61F 138400

(31) Priority Document No :2020-208558

(32) Priority Date :16/12/2020

(33) Name of priority country :Japan

(86) International Application No :PCT/JP2021/041893

Filing Date :15/11/2021

(87) International Publication No :WO 2022/130871

(61) Patent of Addition to Application Number :NA

Filing Date :NA

(62) Divisional to Application Number :NA

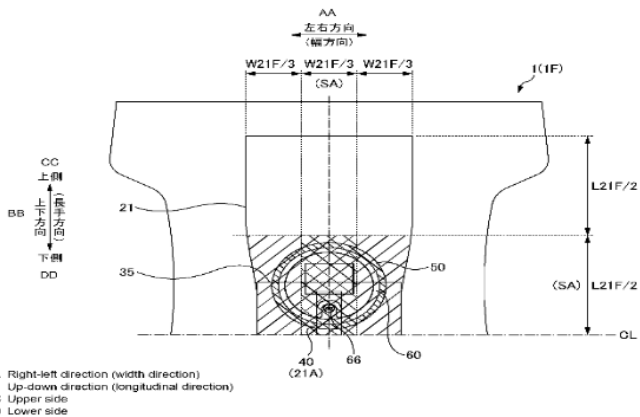
Filing Date :NA

(71)Name of Applicant :  
**1)UNICHARM CORPORATION**  
 Address of Applicant :182, Shimobun, Kinsei-cho, Shikokuchuo-City, Ehime 7990111 Japan

(72)Name of Inventor :  
**1)MIYAMA, Takuya**  
**2)UTO, Shota**

(57) Abstract :

An absorbent article (1) comprising an absorbent body (21) and having a contact section (SA) that is in contact with an excretory odor detecting device (60) for detecting the odor of stool when said excretory odor detecting device (60) is removably attached to a portion which is the front side of the absorbent article when worn and which is further to the non-skin side in comparison to the absorbent body (21), the absorbent article being characterized by having, further to the skin side in comparison to the contact section (SA), an odor guiding section (40) for guiding the odor of stool.



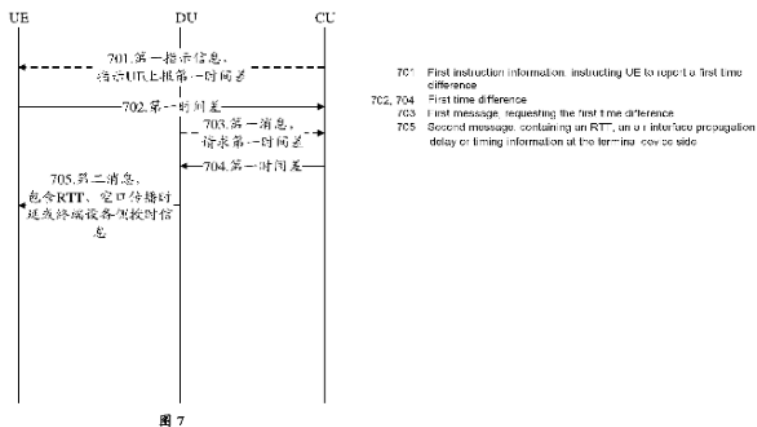
No. of Pages : 42 No. of Claims : 17

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification	:C01B 033400, C01B 033800, C10J 035800, H04L 010000, H04W 481000	(71)Name of Applicant : <b>1)HUAWEI TECHNOLOGIES CO., LTD.</b> Address of Applicant :Huawei Administration Building, Bantian, Longgang District Shenzhen, Guangdong 518129 China
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)XU, Xiaoying</b>
(33) Name of priority country	:NA	<b>2)FAN, Qiang</b>
(86) International Application No	:PCT/CN2020/122532	<b>3)HAN, Feng</b>
Filing Date	:21/10/2020	
(87) International Publication No	:WO 2022/082514	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A communication method and apparatus. Said method comprises: receiving a first time difference from a second communication apparatus; determining a round trip time (RTT) according to the first time difference and a second time difference; and sending a second message to a terminal device, wherein the second message contains the RTT, an air interface propagation delay or timing information at the terminal device side, the value of the air interface propagation delay is equal to half of the RTT value, and the timing information at the terminal device side is determined according to the air interface propagation delay. With the method and apparatus in the embodiments of the present application, high precision timing between a network device and a terminal device can be achieved in a CU-DU-separated architecture.



No. of Pages : 39 No. of Claims : 45

(54) Title of the invention : WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE

(51) International classification	:H04M 010200, H04W 120880, H04W 241000, H04W 720400, H05B 471900
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2020/118943
Filing Date	:29/09/2020
(87) International Publication No	:WO 2022/067532
(61) 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

(72)Name of Inventor :  
**1)HE, Chuanfeng**

(57) Abstract :

A wireless communication method, a terminal device and a network device. The method comprises: according to a first reference signal measurement quantity threshold, a terminal device determining a target reference signal measurement quantity threshold used by the terminal device, wherein the first reference signal measurement quantity threshold is a reference signal measurement quantity threshold corresponding to a first-type terminal, the terminal device belongs to the first-type terminal, and the first-type terminal comprises a reduced capability terminal; or, according to a reference signal measurement quantity threshold corresponding to a second-type terminal and a capability of the first-type terminal, the terminal device determining a target reference signal measurement quantity threshold used by the terminal device, wherein the terminal device belongs to the first-type terminal, the first-type terminal comprises the reduced capability terminal, and the second-type terminal does not comprise the reduced capability terminal.

200

终端设备根据第一参考信号测量量门限确定所述终端设备所使用的目标参考信号测量量门限, 其中, 所述第一参考信号测量量门限为第一类终端对应的参考信号测量量门限, 所述终端设备属于所述第一类终端, 所述第一类终端包括降低能力终端

S210

图 2

S210 According to a first reference signal measurement quantity threshold, a terminal device determines a target reference signal measurement quantity threshold used by the terminal device, wherein the first reference signal measurement quantity threshold is a reference signal measurement quantity threshold corresponding to a first-type terminal, the terminal device belongs to the first-type terminal, and the first-type terminal comprises a reduced capability terminal

No. of Pages : 35 No. of Claims : 17

(54) Title of the invention : COIL FOR MANUFACTURING A POLYPHASE WINDING FOR AN ELECTRICAL MACHINE

(51) International classification :H01F 410400, H02K 031200, H02K 150000, H02K 150600, H02K 440600

(31) Priority Document No :a 2020 05940

(32) Priority Date :16/09/2020

(33) Name of priority country :Ukraine

(86) International Application No :PCT/UA2021/000078  
Filing Date :13/09/2021

(87) International Publication No :WO 2022/060343

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

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

(71)Name of Applicant :

**1)LIMITED COMPANY (LTD) SCIENTIFIC MANUFACTURING ENTERPRISE OPTIMAG**

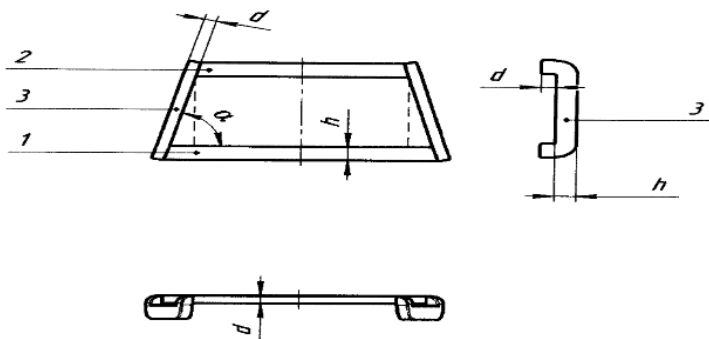
Address of Applicant :1 Karantynnyi ostriv, 1 Kherson, 73000 Ukraine

(72)Name of Inventor :

**1)STADNYK, Ivan Petrovych****2)HARMASH, Vitalii Ruslanovych****3)BORZAKOV, Artur Erastovych**

(57) Abstract :

The technical solution relates to the field of electromechanical engineering and can be used in the manufacture of windings for rotating electrical machines (electric motors and electric generators) with or without slots, or for linear electric motors. A coil for manufacturing a polyphase winding for an electrical machine is made in the shape of an isosceles trapezoid from a self-sintering conductor. The active elements of the coil are straight, and the overhangs of the coil are bent at a right angle to the active elements of the coil and are curved along an arc of a circle in the case of rotating electrical machines or are straight in the case of linear electric motors. The dimensions of the trapezoid are determined by the width of the active element of the coil, the width of a tooth of the core, the thickness of the coil and the acute angle of the trapezoid.



Фиг. 1

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327027460 A

(19) INDIA

(22) Date of filing of Application :13/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : USE OF SURFACTANT WITH HIGH MOLECULAR WEIGHT FISH GELATIN BASED DOSAGE FORMULATIONS TO IMPROVE FLOW CHARACTERISTICS

(51) International classification :A61K 092000,  
A61K 315510, A61K  
474200, A61P  
250800, A61Q  
051200

(31) Priority Document No :63/079852

(32) Priority Date :17/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/EP2021/075710  
Filing Date :17/09/2021

(87) International Publication No :WO 2022/058556

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

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

(71)Name of Applicant :  
**1)CATALENT U.K. SWINDON ZYDIS LIMITED**  
Address of Applicant :1 George Square Glasgow G2 1AL  
U.K.

(72)Name of Inventor :  
**1)GROTHER, Leon Paul**

(57) Abstract :

The present disclosure is directed to use of surfactant with fish gelatin based, freeze dried orally disintegrating tablets. Specifically, Applicants discovered that a small amount of surfactant in combination with high molecular weight fish gelatin in a pharmaceutical formulation can ensure good solution/suspension flow into preformed molds during dosing in order that the finished dosage form has an acceptable shape.

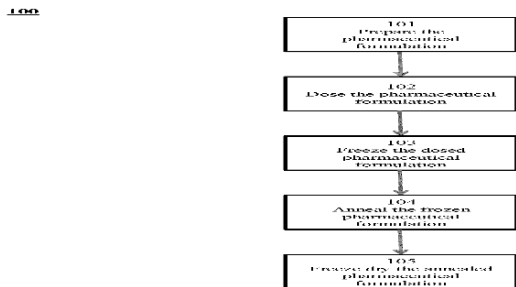


FIG. 1

No. of Pages : 26 No. of Claims : 4



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327027526 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANTI-GREYING COMPOSITION FOR LAUNDRY

(51) International classification	:C11D 016600, C11D 018250, C11D 030000, C11D 032200, C11D 033800	(71)Name of Applicant : <b>1)BASF SE</b> Address of Applicant :Carl-Bosch-Strasse 38 67056 Ludwigshafen am Rhein Germany
(31) Priority Document No	:20198788.0	(72)Name of Inventor :
(32) Priority Date	:28/09/2020	<b>1)BAIER, Grit</b>
(33) Name of priority country	:EPO	<b>2)ETTL, Roland</b>
(86) International Application No	:PCT/EP2021/075654	<b>3)ESPER, Claudia</b>
Filing Date	:17/09/2021	<b>4)BEZIAU, Antoine Maxime Charles Joseph</b>
(87) International Publication No	:WO 2022/063697	<b>5)DETERING, Juergen</b>
(61) Patent of Addition to Application Number	:NA	<b>6)SPANGENBERG, Oliver</b>
Filing Date	:NA	<b>7)BOENEMANN, Gabriele</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A liquid composition comprising at least component (a) a polymer which is (a1) an ethoxylated hexamethylene diamine polymer, quaternized and optionally sulfated containing in average (20) to (30) ethoxylate groups (EO) with an average molecular weight Mw in the range from 2,000 to 10,000 g/mol and mixtures thereof, and/or (a2) an ethoxylated polyethylenimine containing in average (15) to (25) ethoxylate groups (EO) per NH-group with an average molecular weight Mw in the range from 5,000 to 20,000 g/mol; and component (b) at least one cellulase.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327027530 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : AQUEOUS, LOW SOLIDS BASECOAT COMPOSITIONS

(51) International classification	:B05D 070000, C09K 080400, C09K 081400, C09K 081600, D21H 193800	(71)Name of Applicant : <b>1)BASF COATINGS GMBH</b> Address of Applicant :Glasuritstr. 1 48165 Münster Germany
(31) Priority Document No	:20197707.1	(72)Name of Inventor : <b>1)BRAUCKMANN, Florian</b>
(32) Priority Date	:23/09/2020	<b>2)RICHERT, Michael</b>
(33) Name of priority country	:EPO	<b>3)POPPE, Andreas</b>
(86) International Application No	:PCT/EP2021/076114	<b>4)DUSCHEK, Wolfgang</b>
Filing Date	:22/09/2021	
(87) International Publication No	:WO 2022/063854	
(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 an aqueous, one-pack coating composition comprising at least one polymer selected from the group consisting self-crosslinkable polymers and externally crosslinkable polymers; at least one crosslinking agent for crosslinking the at least one polymer, if the at least one polymer is an externally crosslinkable polymer; at least one polymeric surface-active agent, and at least one organic rheology control agent selected from the group consisting of (meth)acrylic acid-(meth)acrylate copolymer rheology control agents and polyurethane rheology control agents, wherein the total solids content of the coating composition is from 7.5 wt.-% to 11.5 wt.-%; the viscosity at 23 °C is from 2000 mPas to 12000 mPas at a shear rate of 0.1 s<sup>-1</sup>; the amount of the at least one polymeric surface-active agent is from 0.5 to 25 wt.-% based on the total solids content of the coating composition; the amount of the at least one organic rheology control agent is from 5 to 12 wt.-% based on the total solids content of the coating composition; and the coating composition does not contain platelet- shaped particulate material having a median particle size D50 (determined by laser diffraction) of 2 µm or more. The invention further relates to a method of producing a coating, preferably a multi-layer coating, making use of an application method wherein the coating composition is applied by a device producing a coating composition jet. Moreover, the invention relates to thus coated substrates.

No. of Pages : 47 No. of Claims : 15

(54) Title of the invention : ELECTRONIC DEVICE

(51) International classification :G06F 011600, G06F 012000, H02J 070000, H04M 010200, H04N 052320

(31) Priority Document No :202011146114.9

(32) Priority Date :23/10/2020

(33) Name of priority country :China

(86) International Application No :PCT/CN2021/124980  
Filing Date :20/10/2021

(87) International Publication No :WO 2022/083639

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

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

(71)Name of Applicant :  
**1)VIVO MOBILE COMMUNICATION CO., LTD.**  
Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China

(72)Name of Inventor :  
**1)ZHENG, Ningjie**

(57) Abstract :

The present application belongs to the technical field of communications. Disclosed is an electronic device. The electronic device comprises: a display module, a middle frame, a sound producing device, a first structural part, a first circuit board and a back housing, wherein the middle frame is provided with an accommodating groove, the display module is arranged in the accommodating groove, a mounting groove is provided on the side of the middle frame away from the display module, the sound producing device is at least partially arranged in the mounting groove, the first structural part and the back housing are arranged on the side of the middle frame away from the display module, a first gap is provided between the first structural part and the back housing, and the first structural part and the middle frame enclose to form a first sound cavity of the sound producing device, or the first structural part and the first circuit board enclose to form a first sound cavity of the sound producing device.

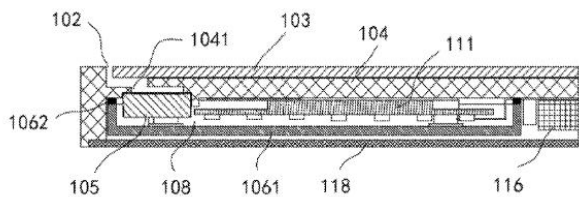


图 3

No. of Pages : 15 No. of Claims : 11

(54) Title of the invention : AEROPHONE INSTRUMENT USING AIR-FILLED OBJECT

(51) International classification :A61B 171700, A61B 342000, A61B 900000, B31D 050000, G06Q 202000

(31) Priority Document No :63/079896

(32) Priority Date :17/09/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/CA2021/051293  
Filing Date :16/09/2021

(87) International Publication No :WO 2022/056635

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

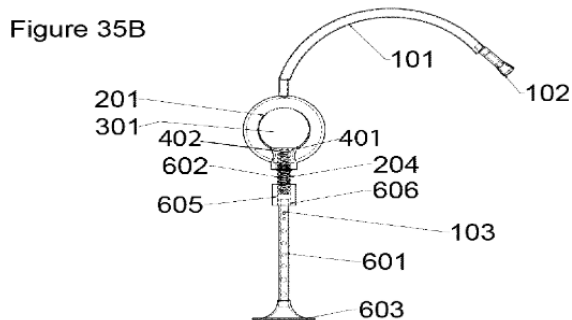
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)ORB MUSIC INC.**  
Address of Applicant :1467 Highway 7A Bethany, Ontario L0A 1A0 Canada

(72)Name of Inventor :  
**1)BAGATAVICIUS, Adam Jason**  
**2)MACDONALD, Jamus Adrian**

(57) Abstract :

An apparatus for assembling and playing an aerophone instrument comprises an air conduit providing an air passage and a means for positioning an enclosed air-filled object to be operatively associated with the air conduit. One or more air inlets and air outlets are disposed along the air conduit for the delivery of gas along one or more air pathways through the air passage. A first volume of compressed air is delivered along an air pathway from an air inlet to an air outlet to produce a vibration on the external surface of a wall of the air-filled object. The vibration of the wall of the air-filled object causes the vibration of a second volume of compressed air as it is exiting the air outlet. The vibration of the volume of compressed air as it exits the air conduit can be experienced as audible sound and modulated to make music.



No. of Pages : 58 No. of Claims : 16

(54) Title of the invention : SYSTEMS, METHODS, AND MACHINES FOR JOINING TRUSS FOUNDATION COMPONENTS

(51) International classification :A01C 050600, A61Q 010200, E02D 072200, E02D 330000, H02J 504000

(31) Priority Document No :17/064362

(32) Priority Date :06/10/2020

(33) Name of priority country :U.S.A.

(86) International Application No :PCT/US2021/014327  
Filing Date :21/01/2021

(87) International Publication No :WO 2022/076022

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

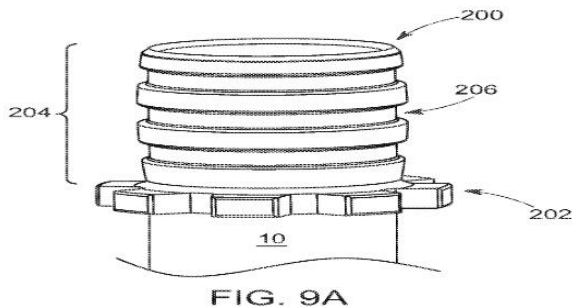
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)OJJO, INC.**  
Address of Applicant :47 Mark Drive San Rafael, California 94903 U.S.A.

(72)Name of Inventor :  
**1)HUDSON, Tyrus**  
**2)KARKHECK, Johann**  
**3)ALMY, Charles**  
**4)WEST, Jack**  
**5)MCPHEETERS, Greg**

(57) Abstract :

A coupler for joining truss leg components provides angular adjustability between the respective axis of the leg components. A prolate spheroid-shaped coupler with three channels circumscribing its surface enables the upper leg components to compensate for axial misalignment of driven screw anchors in all directions. A hydraulic crimping device with upper and lower crimping guides registers its position with features on the truss hardware to insure that blind triple crimps are performed consistently each time.



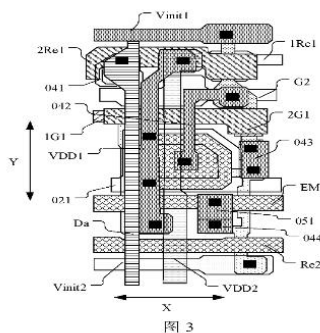
No. of Pages : 25 No. of Claims : 20

## (54) Title of the invention : DISPLAY PANEL AND DISPLAY DEVICE

(51) International classification	:G02F 011333, G09G 032000, G09G 033208, H01J 111200, H01L 273200	(71)Name of Applicant : <b>1)BOE TECHNOLOGY GROUP CO., LTD.</b> Address of Applicant :No. 10 JiuXianqiao Rd., Chaoyang District, Beijing 100015 China <b>2)CHENGDU BOE OPTOELECTRONICS TECHNOLOGY CO., LTD.</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)WEI, Feng</b>
(33) Name of priority country	:NA	<b>2)WANG, Binyan</b>
(86) International Application No	:PCT/CN2021/099484	<b>3)CHENG, Tianyi</b>
Filing Date	:10/06/2021	<b>4)LI, Meng</b>
(87) International Publication No	:WO 2022/257082	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

## (57) Abstract :

A display panel and a display device. The display panel comprises a pixel driving circuit, the pixel driving circuit comprising a driving transistor (T3) and a first transistor (T1), wherein a first electrode of the first transistor (T1) is connected to a gate electrode of the driving transistor (T3), and a second electrode thereof is connected to a first initial signal line (Vinit1); the driving transistor (T3) is a P-type low-temperature polycrystalline silicon transistor; and the first transistor (T1) is an N-type oxide transistor. The display panel further comprises: a base substrate, a second conductive layer, a second active layer, a third conductive layer and a fourth conductive layer. The second conductive layer is located on one side of the base substrate, and the second conductive layer comprises a third gate line (1Re1), wherein an orthographic projection of the third gate line (1Re1) on the base substrate extends in a first direction (X), and part of the structure of the third gate line (1Re1) is used for forming a first gate electrode of the first transistor (T1); the second active layer is located on the side of the second conductive layer facing away from the base substrate, and part of the structure of the second active layer is used for forming a channel region of the first transistor (T1); the third conductive layer is located on the side of the second active layer facing away from the base substrate, and the third conductive layer comprises a fifth gate line (2Re1), wherein an orthographic projection of the fifth gate line (2Re1) on the base substrate extends in the first direction (X), and part of the structure of the fifth gate line (2Re1) is used for forming a second gate electrode of the first transistor (T1); the fourth conductive layer is located on one side of the base substrate, and the fourth conductive layer comprises the first initial signal line (Vinit1), wherein an orthographic projection of the first initial signal line (Vinit1) on the base substrate extends in the first direction (X), and the first initial signal line (Vinit1) is used for providing a first initial signal.



No. of Pages : 40 No. of Claims : 24

(54) Title of the invention : SELF-LOCKING THREADED CONNECTION PARTIALLY IN NON-LOCKING ENGAGEMENT

(51) International classification :A61B 178000, F16B 330600, F16B 392860, F16B 393000, F16B 393400

(31) Priority Document No :20204267.7

(32) Priority Date :28/10/2020

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2021/079122  
Filing Date :20/10/2021

(87) International Publication No :WO 2022/090034

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

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

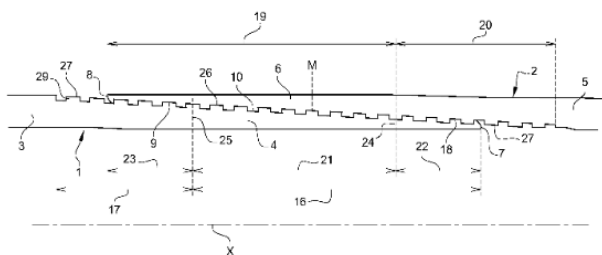
(71)Name of Applicant :  
**1)VALLOUREC OIL AND GAS FRANCE**  
 Address of Applicant :54 rue Anatole France 59620 Aulnoye-Aymeries France  
**2)NIPPON STEEL CORPORATION**

(72)Name of Inventor :  
**1)OTT, Wesley**  
**2)VAN GORP, Logan**  
**3)GRANGER, Scott**

(57) Abstract :

A flush self-locking threaded connection partially in a non-locking engagement comprises a first and a second tubular component provided respectively with male and female threaded zone at their respective ends. First portions of the male and female threaded zones with varying thread width and root cooperate along a self-locking tightening arrangement. A locking region within the threaded connection is located in the middle of non- locking regions, and radially centered to the pipe body API tolerances in order to withstand high torque and seal performances.

Fig. 1



No. of Pages : 28 No. of Claims : 20

(54) Title of the invention : METHOD FOR HEATING A FEED OF NATURAL GAS TO A STEAM REFORMER AND SYSTEM AND USE THEREOF

	:B01J 080600, C01B 033800, C10L
(51) International classification	030800, C10L 031000, F02M 210200
(31) Priority Document No	:202011041823
(32) Priority Date	:25/09/2020
(33) Name of priority country	:India
(86) International Application No	:PCT/EP2021/076299
Filing Date	:24/09/2021
(87) International Publication No	:WO 2022/063949
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

**1)YARA INTERNATIONAL ASA**

Address of Applicant :Drammensveien 131 0277 Oslo Norway

(72)Name of Inventor :

**1)SINGH, Udaypal**

(57) Abstract :

The present disclosure relates to a method for heating a feed of natural gas (1), used as feed for a steam reformer (19) of an ammonia production system (39), wherein the system comprises a steam reformer (19), operably connected to a heat recovery unit (3) comprising at least two heating coils (4, 5) maintained at a different temperature, wherein the feed of natural gas (1) passes through the at least two heating coils (4) and (5). The method comprises the steps of: a) recovering heat in the heat recovery unit (3) from the ammonia production system (39) and b) exchanging at least part of the heat recovered in step a) with at least a portion of the feed of natural gas (1), thereby obtaining a heated feed of natural gas (10), wherein the feed of natural gas (1) does not comprise steam. The method is further characterised in that the heat recovered in step a) is heat recovered from flue gas (2) produced in the steam reformer (19) and step b) comprises the consecutive steps of b1) heating the feed of natural gas (1) from a temperature ranging from 10 °C to 40 °C to a temperature ranging from 180 °C to 210 °C upon contacting the feed (1) with a first heating coil (4) of the heat recovery unit (3), thereby obtaining a pre-heated feed of natural gas (9); and; b2) subsequently further heating the heated feed of natural gas (9) from step b1) to a temperature ranging from 360 °C to 380 °C upon contacting the feed (9) with a second heating coil (5) of the heat recovery unit (3), thereby obtaining the heated feed of natural gas (10). The present disclosure further relates to a system for heating the feed of natural gas (1), used as feed for the steam reformer (19) of the ammonia production system, and to the use of the system of the disclosure for performing the method of the disclosure.

No. of Pages : 23 No. of Claims : 7



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202327028019 A

(19) INDIA

(22) Date of filing of Application :17/04/2023

(43) Publication Date : 26/05/2023

(54) Title of the invention : ARTIFICIAL GRAPHITE, PREPARATION METHOD THEREFOR, SECONDARY BATTERY CONTAINING SAME, AND ELECTRIC DEVICE

(51) International classification :C01B 322050, H01M 040200, H01M 043600, H01M 045870, H01M 100525

(31) Priority Document No :NA

(32) Priority Date :NA

(33) Name of priority country :NA

(86) International Application No :PCT/CN2021/117986  
Filing Date :13/09/2021

(87) International Publication No :WO 2023/035266

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

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

(71)Name of Applicant :  
**1)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED**

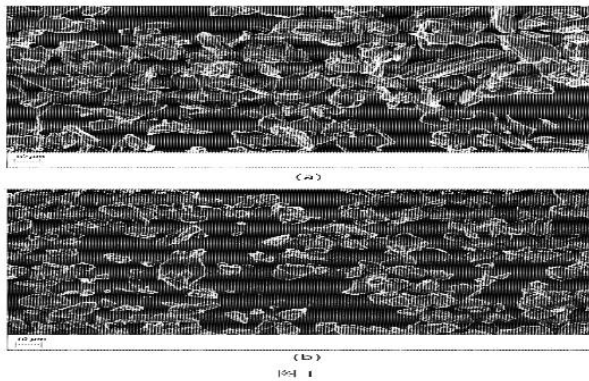
Address of Applicant :NO.2 XIN'GANG ROAD, ZHANGWAN TOWN, JIAOCHENG DISTRICT NINGDE CITY, Fujian 352100 China

(72)Name of Inventor :

- 1)WANG, Jiazheng**
- 2)CHEN, Binyi**
- 3)LI, Xuan**
- 4)LIU, Na**
- 5)OUYANG, Chuying**

(57) Abstract :

Provided are an artificial graphite, a secondary battery (5), a preparation method and a device. The artificial graphite satisfies:  $PD\ 5t/PD\ 0.5t = 1.35$ , wherein  $PD\ 5t$  is the compaction density measured for the artificial graphite at a pressure of 5 tons, and  $PD\ 0.5t$  is the compaction density measured for the artificial graphite at a pressure of 0.5 tons.



No. of Pages : 38 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141022765 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITIONS OF LICOFELONE

(51) International classification	:A61K0047100000, A61K0009480000, A61K0047120000, A61K0047140000, A61K0031427000	(71) <b>Name of Applicant :</b> <b>1)AIZANT DRUG RESEARCH SOLUTIONS PRIVATE LIMITED</b> Address of Applicant :Sy No. 172 & 173, Apparel Park Road, Dulapally Village, Quthbullapur Mandal, Hyderabad-500100, Telangana, India. Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)POLASA SRIKANTH</b>
(33) Name of priority country	:NA	<b>2)CHINTAKADI KISHORE</b>
(86) International Application No	:NA	<b>3)JOGUPARTHI VIJAY</b>
Filing Date	:NA	
(87) 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 PHARMACEUTICAL COMPOSITIONS OF LICOFELONE The present invention relates to pharmaceutical compositions of Licofelone, or a pharmaceutically acceptable ester, salt or solvate thereof, suitable for oral administration wherein the compositions have good stability also have improved dissolution profile.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053418 A

(19) INDIA

(22) Date of filing of Application :20/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A FLUID-FLOW CONTROL SYSTEM FOR VEHICLE HEATING AND COOLING SYSTEM

(51) International classification :G01F0001320000,  
B01F0007000000,  
E21B0023000000,  
A61F0002950000,  
E21B0023060000

(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)Valeo India Private Limited**

Address of Applicant :Valeo India Private Limited. CEE DEE  
YES IT Parks, Block-II, No. 63, Rajiv Gandhi Salai, Navalur,  
Chennai - 600 130, India Tamil Nadu India

(72)Name of Inventor :

**1)ANBALAGAN, Praveenkumar**

(57) Abstract :

The present invention discloses a fluid-flow control system (100, 200 300) for controlling heat exchange fluid-flow there through. The system (100, 200, 300) comprises at least one flexible conduit (102) defining a fluid-flow path there through, and a sleeve (104) that encapsulates a length of the conduit (102). The sleeve (104) have a first side movably coupled to a driving unit (106) and an opposing second side configured as a stationary side. The driving unit (106) is adapted to move the sleeve (104) along with the conduit (102) to effect an inward movement or an outward movement. The inward movement and the outward movement compress and decompress the conduit (102), respectively, to vary the area of fluid-flow path and provide a range of fluid-flow rate. The gradual transition of the conduit (102) advantageously reduces pressure drop, vortex shedding and turbulence. Fig. 1 is to be published along with the abstract.

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053433 A

(19) INDIA

(22) Date of filing of Application :20/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD OF MAKING MULCH SHEETS AND PLANT POTS USING HUMAN HAIR WASTE

(51) International classification	:B29C0045000000, B29B0017000000, A45D0044160000, B29C0043020000, C08L0097020000	(71) <b>Name of Applicant :</b> <b>1)ABDUL KAREEM THOTTOLI</b> Address of Applicant :THOTTOLI ERATTAKULAM HOUSE PULIYAMPARAMBA KARIPPUR PO VIA KONDOTTY MALAPPURAM DT KERALA 673638 Kerala India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. ABDUL KAREEM THOTTOLI</b>
(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 preferred embodiment of this invention relates to a method of manufacturing sheets made of cut hair or hair waste collected from barber or beauty shops for making mulch and plant pots. The sheets can be cut into discs or roll sheets or any shapes. This can also be used as door mats or floor mats.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053489 A

(19) INDIA

(22) Date of filing of Application :21/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR FLOWRATE MEASUREMENT CORRECTION OF A FLOWMETER

(51) International classification	:G05D0007060000, G01F0001320000, G01F0001660000, G01F0015040000, G01F0001000000	(71)Name of Applicant : <b>1)ABB SCHWEIZ AG</b> Address of Applicant :Brugger Strasse 66, Baden, Switzerland CH-5400 Switzerland
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Subhashish Dasgupta</b>
(33) Name of priority country	:NA	<b>2)Xiaotang Gu</b>
(86) International Application No	:PCT//	<b>3)Edis Loveless</b>
Filing Date	:01/01/1900	<b>4)Raghu Kumar NV</b>
(87) 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 method (400) and a system (210) for correcting flowrate measurements of a flowmeter (130). The method comprises receiving at least one of flow distorting parameters, flowmeter physical and operational parameters, a current flowrate value measured by the flowmeter, and fluid physical properties. The method may further comprise determining a flow regime based on the current flowrate value; and selecting at least one flow equation based on the determined flow regime. The method may further comprise computing an output signal based on the selected flow equation and at least one of electromagnetic equations and/or physics-based equations, the flow distorting parameters, the flowmeter physical and operational parameters, and the fluid physical properties. The method may further comprise determining a corrected calibration factor using the computed output signal and the current flowrate value and transmitting the corrected calibration factor for correcting flowrate measurement of the flowmeter.

Fig 4

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053505 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : EXTRACTION OF BORDERLESS TABLE FROM A DOCUMENT USING IMAGE PROCESSING

(51) International classification	:G06K0009320000, G06K0009340000, G06T0007110000, G06K0009000000, G06K0009460000	(71) <b>Name of Applicant :</b> <b>1)L&amp;T TECHNOLOGY SERVICES LIMITED</b> Address of Applicant :DLF IT SEZ Park, 2nd Floor – Block 3, Mount Poonamallee Road, Ramapuram, Chennai Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)TARUN KUMAR DAS</b>
(33) Name of priority country	:NA	<b>2)TRIPTESH MALLICK</b>
(86) International Application No	:NA	<b>3)MRIDUL BALARAMAN</b>
Filing Date	:NA	<b>4)Dr. MADHUSUDAN SINGH</b>
(87) 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 of extracting borderless structure using image processing is disclosed. The method may include converting a received document into a binary image comprising a plurality of text characters. A first image is created comprising a plurality of text blobs by connecting text characters, and merging the plurality of text blobs to create one or more text line blobs to generate a second image. Further the first image and the second image are compared to generate a third image comprising a plurality of gap blobs. The gap blobs are clustered into one or more groups to determine a localized region of interest (ROI). Further lines are identified within the ROI using pixel density and separated into rows and columns. The final output contains list of cell coordinates. [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053506 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A WEARABLE PRODUCT FOR TRACKING THE MINDFULNESS OF A USER

(51) International classification	:A61B0005000000, A61B0005110000, G06N0020000000, A61B0005020500, A61B0005053000	(71) <b>Name of Applicant :</b> <b>1)AVANTARI TECHNOLOGIES PRIVATE LIMITED</b> Address of Applicant :PLOT NO. 185 ROAD NUMBER 76, JUBILEE HILLS HYDERABAD Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)BHAIKAV SHANKAR</b>
(33) Name of priority country	:NA	<b>2)VIMAL CHANDRU</b>
(86) International Application No	:NA	<b>3)RAJESH CHANDRASHEKAR</b>
Filing Date	:NA	<b>4)HARI KEERTHIPATI</b>
(87) 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 DEVICE FOR TRACKING THE MINDFULNESS OF A USER AND A METHOD THEREFOR The present invention relates to the field of wearable smart devices for monitoring key vital parameters of the user. Specifically, it pertains to a device which effectively calculates the amount of time that the individual is meditating and mindful. The present invention is more specifically pertains to the device which effectively calculates the amount of time that the individual is meditating and mindful regardless of the form of meditation that the user chooses to meditate.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053521 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A DE-WEEDING APPARATUS

(51) International classification :A01M0021040000,  
A01B0039180000,  
A01M0021020000,  
A01B0063020000,  
A01B0079000000

(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)L&T Technology Services Ltd.**

Address of Applicant :DLF IT-SEZ Park, 2nd Floor – Block 3  
1/124, Mount Poonamallee Road Ramapuram, Chennai, INDIA  
Tamil Nadu India

(72)Name of Inventor :

**1)POOJA PRIYADARSHINI**

(57) Abstract :

The present disclosure relates to a weeding apparatus (10) for removing a weed from the soil. The weeding apparatus (10) comprises a de-weeding tool (12) configured for uprooting a targeted weed and a tool support assembly (28) being configured with the de-weeding tool (12). The tool support assembly (28) comprises a linear actuation mechanism configured for the movement of the de-weeding tool (12) in the vertical direction between an engaged position and a disengaged position from a ground surface. A first actuation mechanism (14) is adapted to rotate the de-weeding tool (12). A conveyor (16) is configured to collect the weeds from the de-weeding tool (12) and transfer it to a sink (30). The weeding apparatus (10) as disclosed in the present disclosure has been developed for targeting and removal of weeds.

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



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053561 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MODULAR GAS STOVE

(51) International classification :F24C0015100000,  
F24C0003000000,  
F24C0003080000,  
F24C0003120000,  
F24C0015140000

(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)TTK PRESTIGE LIMITED**

Address of Applicant :11th Floor, Brigade Towers, No.135,  
Brigade Road, Bangalore-560 025, State of Karnataka, India  
Karnataka India

(72)Name of Inventor :

**1)THATAI Jagannathan Tiruvallur**

(57) Abstract :

ABSTRACT MODULAR GAS STOVE [0078] A modular gas stove (100) is disclosed to include a base unit (102), burner assembly units (104), and an attachment assembly for engagement and disengagement of the base unit (102) and each burner assembly unit (104) from the burner assembly units (104). The base unit (102) is detachably connected to a main gas pipeline. The burner assembly units (104) have respective elongated connecting arms (112) to position the burner assembly units (104) perpendicularly away from the base unit (102) such that major axis of the base unit XX' and major axis of each of the burner assembly units YY' are perpendicular to each other. The connecting arms (112) also separate the burner assembly units (104) from the base unit (102) by the length of the elongated connecting arms L and detachably engage the burner assembly units (104) to the base unit (102). Fig. 1(b)

No. of Pages : 43 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053565 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : UNINTERRUPTIBLE POWER DRIVE SYSTEM FOR ELECTRIC VEHICLES USING RENEWABLE ENERGY

(51) International classification	:F03D0009250000, H02J0009060000, B60K0016000000, B60L0008000000, F03D0003040000	(71)Name of Applicant : <b>1)Dr.Ponguru Chandra Sekhara Reddy</b> Address of Applicant :12-Revathi Apartments, Prajasakthi Nagar, Mogalraj Puram, Vijayawada – 520010, Andhra Pradesh, India. Andhra Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr.Ponguru Chandra Sekhara Reddy</b>
(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 :

Title:Uninterruptible Power Drive System for Electric Vehicles Using Renewable Energy The present disclosure proposes an uninterruptible power drive system for electric vehicles that uses renewable wind energy to provide uninterruptible power to electric vehicles. The system 100 comprises a plurality of horizontal wind turbines 106, plurality of vertical wind turbines 104, a bilateral wind turbine assembly, at least one compressor unit 116 and at least one power driving unit(Motor 122). The system utilizes multiple wind power generators mounted on the electric vehicle to generate electricity using wind flow while the vehicle is in motion. The proposed system aids to reduce the necessity of a large number of batteries by directly utilizing the electricity generated by the wind power generators using Coanda effect and utilizing battery power as a secondary power supply.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053570 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : FLOW CONTROL MECHANISM FOR VX2 COMMUNICATION INTELLIGENT FLOW CONTROL

(51) International classification	:H04L0012801000, H04L0012851000, H04L0029080000, H04W0028020000, H04W0072100000	(71) <b>Name of Applicant :</b> <b>1)Harman International Industries, Incorporated</b> Address of Applicant :400 Atlantic Street, 15th Floor, Stamford, CT 06901, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vijay Radhakrishnan</b>
(33) Name of priority country	:NA	<b>2)Rishu Jain</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :

Methods and systems are provided for processing received messages from the V2X network. The method may allow the vehicle to identify high priority messages and send them to the upper layers for further processing without any feedback mechanism from the upper layers. The method may ensure that the system processes all high priority messages even during high load and high congestion scenarios by intelligently selecting the messages that should be dropped at lower layers so, that the load at the processor is not increased thus controlling the system behavior in high load conditions. This avoids dropping of high priority messages due to the system not being able to handle the rate at which the messages are being received.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053577 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : UTILIZING MACHINE LEARNING MODELS TO PREDICT SYSTEM EVENTS BASED ON TIME SERIES DATA GENERATED BY A SYSTEM

(51) International classification	:G06N0020000000, G06K0009620000, G06N0007000000, G06N0003080000, G06N0003040000	(71)Name of Applicant : <b>1)Accenture Global Solutions Limited</b> Address of Applicant :3 Grand Canal Plaza, Grand Canal Street Upper, Dublin, 4 Ireland Ireland
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)ERANPURWALA Femida</b>
(33) Name of priority country	:NA	<b>2)KUMAR Satyan</b>
(86) International Application No	:NA	<b>3)MAHESHWARI Rahul</b>
Filing Date	:NA	<b>4)POONKUNDRAN Balaji</b>
(87) 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 device may receive historic temporal data identifying events associated with a system, and may perform block bootstrapping of the hierarchical time series data, based on a hyperparameters, to generate blocks of data points of the historic time series data. The device may process the blocks of data points, with a plurality of different machine learning models, to calculate predictions, and may apply weights to the predictions to generate weighted predictions. The device may aggregate the weighted predictions to generate aggregated predictions, and may apply final weights to the aggregated predictions to generate weighted aggregated predictions. The device may aggregate the weighted aggregated predictions to generate a final prediction, and may perform one or more actions based on the final prediction.

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053611 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR PROVIDING HAPTIC-BASED COMMUNICATION

(51) International classification	:G06F0003010000, G08B0006000000, A61B0005000000, G06F0003041000, G08B0021020000	(71)Name of Applicant : <b>1)KLS Gogte Institute of Technology</b> Address of Applicant :Udyambag, Belagavi Karnataka - 590008, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Akshay Sangamesh Yadur</b>
(33) Name of priority country	:NA	<b>2)Ayush Raman Sharma</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 PROVIDING HAPTIC-BASED COMMUNICATION ABSTRACT Disclosed is a system for providing haptic-based communication from a primary user to at least one secondary user. The system comprises a transmitter configured to be controlled by the primary user, wherein the transmitter comprises a controller for providing a plurality of commands to the at least one secondary user, and at least one wearable haptic device, wherein a given wearable haptic device is worn by a given secondary user and is configured to provide haptic feedback to the given secondary user based on the one or more commands from the plurality of commands provided by the primary user via the controller. FIG. 1

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053629 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : LIGHT TRANSMITTANCE CONTROL DEVICE AND METHOD THEREOF

(51) International classification	:G03F0007200000, H04N0021410000, H05B0045200000, H04N0013341000, H05B0047190000	(71)Name of Applicant : <b>1)Centre for Nano and Soft Matter Sciences</b> Address of Applicant :Arkavathi, Survey No.7, Shivanapura, Dasanapura Hobli Bengaluru - 562 162, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Ashutosh Kumar Singh</b>
(33) Name of priority country	:NA	<b>2)Indrajit Mondal</b>
(86) International Application No	:NA	<b>3)Nilay Awasthi</b>
Filing Date	:NA	
(87) 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 Title: Light transmittance control device and method thereof The present invention is in the field of energy-saving smart technology, more specifically to light transmittance control device and a method of fabrication of smart partition windows. The fabrication includes surface energy modification of two glass panes, followed by assembling them into a square or rectangular-shaped cell with appropriate inlets and outlets for mist. The invention can be adopted on an industrial scale for the manufacture of smart partitions. FIGURE 1

No. of Pages : 34 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053641 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : TRACHEAL CUFF PRESSURE CONTROL VALVE

(51) International classification	:A61M0016040000, A61B0005022000, A61M0016200000, A61M0016000000, A61B0005022500	(71)Name of Applicant : <b>1)VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSTIY)</b> Address of Applicant :NH-47, SANKARI MAIN ROAD ARIYANOOR, SALEM - 636308, TAMILNADU, INDIA Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. V. P. CHANDRASEKARAN</b>
(33) Name of priority country	:NA	<b>2)DR. S. NATARAJAN</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 is related to Tracheal Cuff Pressure Control Valve inflate air to an appropriate pressure of 30 cm H20 in the pilot cuff of the endotracheal or tracheostomy tube. Under inflation of these cuffs leads to aspiration and over inflation leads to injury which can precipitate narrowing of trachea. The Endotracheal or Tracheostomy tube cuff pressure can be measured by manometer but it can be cumbersome and instrument is not freely available as well as it is costly. As we measure the pressure frequently by the manometer, air from the pilot cuff fills the dead space of the manometer and results in progressive reduction of air volume in the cuff which in turn decrease the cuff pressure inadvertently. There are various designs invented to monitor intra-cuff pressure of the endotracheal tube. These devices are used to either monitor the cuff pressure continuously or intermittently by manual methods. The latest is the Hi-Lo Tracheal Tube with Lanz Pressure Regulating Valve which automatically maintains intra-cuff pressure at approximately 30 cm H20 but some of these devices are very expensive. A tracheal cuff pressure control valve (Fig. 1) was designed and is under construction, which contains a T tube one end of the T tube serve as a male connector (3) to pilot cuff and at another end serves as a female connector (2) to the air syringe. Third end is attached with an inbuilt pressure control valve (1) which release excess of air beyond 30 cm H20. This differs from the other cuff pressure monitoring devices by using a simple technique of pressure control valve. So, the excess amount of air beyond a pressure of 30 cm H20 injected will be released to atmosphere, thus completely preventing over inflation as well as under inflation. Using the tracheal cuff pressure control valve, one can avoid over or under inflation and there is no need to measure the pressure using manometer.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053649 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IMPROVED BATTERY STORAGE ARRANGEMENT IN A VEHICLE

(51) International classification	:B60K0001040000, B60L0058260000, B64D0011000000, B60R0005040000, B62K0019460000	(71)Name of Applicant : <b>1)Pur Energy Private Limited</b> Address of Applicant :H. No 10-38/2, Survey No. 424/AA3 Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, 502285 Telangana India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DATE, MAHENDRA DAGADU</b>
(33) Name of priority country	:NA	<b>2)KAR, SHIKHAR SATYENDRA</b>
(86) International Application No	:NA	<b>3)PAYYALA, NARESH NAIDU</b>
Filing Date	:NA	<b>4)DONGARI, NISHANTH</b>
(87) 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 an improved arrangement of vehicle components comprising; a seat, a battery, a luggage compartment which is arranged beneath the seat and the battery storage compartment which is positioned inclined towards the rear end of the luggage compartment. The improved arrangement of vehicle components enables improved vehicle dynamics, provides superior vehicle ride quality, space for battery enlargement and enlarged boot space.

No. of Pages : 16 No. of Claims : 8



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053683 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING MAGNETOSTRICTION OF A FERROMAGNETIC MATERIAL

(51) International classification	:G01N0029240000, G01L0003100000, G01N0029040000, B25B0021020000, B06B0001080000	(71) <b>Name of Applicant :</b> <b>1)DETECT TECHNOLOGIES PRIVATE LIMITED</b> Address of Applicant :Module 2A, Third Floor, Block A, IIT- M Research Park, Phase - II, Kanagam Rd, Kanagam, Tharamani, Chennai, Tamil Nadu 600113 Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)M VENKATA SAI SIVA RAMAKRISHNA</b>
(33) Name of priority country	:NA	<b>2)RENJITH P</b>
(86) International Application No	:NA	<b>3)RENIL THOMAS K</b>
Filing Date	:NA	<b>4)HARIKRISHNAN A S</b>
(87) International Publication No	: NA	<b>5)TARUN MISHRA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present disclosure relates to method and system for determining magnetostriction of the ferromagnetic material. The system comprises first strip, second strip, acoustic medium, RF pulse unit, DC unit, amplifier, oscilloscope and processing unit. The first strip generates acoustic wave due to strain induced by the RF pulse unit and the DC unit. The acoustic wave is guided along the second strip and causes stress in the second strip. The processing unit measures magnetic field generated at the second strip and determines the magnetostriction of the second strip. Further, the processing unit identifies an optimal biasing point for the second strip based on the magnetostriction. Thus, the system provides a low-cost and robust method to determine the magnetostriction of sensors and actuators. Figure 5

No. of Pages : 41 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053690 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR DIAGNOSING A TRACTION MOTOR OF A HYBRID TYPE VEHICLE

(51) International classification :B60W0010080000,  
B60K0006480000,  
H02P0006182000,  
B60W0010060000,  
B60W0020000000

(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)TVS MOTOR COMPANY LIMITED**  
Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan  
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Tamil Nadu India

(72)Name of Inventor :  
**1)KRISHNAMOORTHY ANIRUDH MURTHY**

(57) Abstract :

ABSTRACT A Method for Diagnosing a Traction Motor of a Hybrid Type Vehicle A method (100) for diagnosing a traction motor of a hybrid type vehicle, having an internal combustion engine and the traction motor, comprising the steps of: starting the engine, and operating the vehicle in an engine only mode; measuring a speed of the vehicle, and a voltage generated by a back emf generated in the traction motor; comparing the back emf generated in the traction motor with a pre-determined value of back emf; diagnosing a deterioration in the traction motor, if the back emf generated is not within a pre-determined variance of the pre-determined back emf value; detecting the payload on the vehicle, if the back emf generated is within the pre-determined variance of the pre-determined back emf value; measuring current in the traction motor, if the payload is not equal to zero; and determining the quality of the back emf generated, thereby diagnosing condition of the traction motor. Reference Figure 1

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053698 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A TURN SIGNAL INDICATOR SYSTEM AND A METHOD THEREOF

(51) International classification	:B60Q0001340000, B60Q0001380000, B60Q0001260000, B60Q0001420000, B60Q0001400000	(71) <b>Name of Applicant :</b> <b>1)TVS MOTOR COMPANY LIMITED</b> Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)RAGHAVENDRA PRASAD</b>
(33) Name of priority country	:NA	<b>2)RAMANATHAN VAISHALI</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 Turn Signal Indicator System and A Method Thereof Present invention relates to turn signal indicator system 100 for vehicle 10. The system 100 includes indicator switch 32 configured to switch-on turn signal indicator light 34, sensor 102 configured for sensing a turning direction of the vehicle 10. The system 100 further includes control unit 104 configured to receive an input from the indicator switch 32 indicative of activation of the turn signal indicator and store first position ?1 of the vehicle 10, receive input from sensor 102 indicative of the turning direction of the vehicle 10 and store second position ?2 of the vehicle 10, determine difference ?? between first position ?1 and second position ?2 for predetermined time T1, and generate signal to cancel turn signal indicator of vehicle 10 when difference ?? between first position ?1 and the second position ?2 of vehicle 10 is greater than preset threshold value ? after predetermined time T1. Reference Figure 1

No. of Pages : 24 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053708 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : MUTANTS HAVING EFFICIENT TRANSFRUCTOSYLATION ACTIVITY

(51) International classification	:A61K0038000000, C12N0009540000, C12R0001070000, C12N0009100000, C12R0001190000	(71) <b>Name of Applicant :</b> <b>1)REVELATIONS BIOTECH PRIVATE LIMITED</b> Address of Applicant :Plot number 153 A&D, Phase II, IDA, Cherlapally, Hyderabad, Telangana India 500051 Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Dr. Ravi Chandra</b>
(33) Name of priority country	:NA	<b>2)Dr. Dipanwita Sinha</b>
(86) International Application No	:NA	<b>3)Mr. Musuku Bharath</b>
Filing Date	:NA	<b>4)Ms. Deepika Sunkara</b>
(87) 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 improved microbial enzymes with transfructosylation activity for efficient and cost-effective production of fructo-oligosaccharides. More specifically, the invention is directed towards obtaining mutant FTase family of genes from genus *Aspergillus*. Nucleic acids, peptide sequences, mutant proteins, vectors and host cells for recombinant expression of novel FTases are also provided. Various mutations, such as but not limited to point mutations and deletion mutations as well as combinations thereof are presented herein. The invention also relates to a process for the expression of a novel recombinant FTase mutants as a secreted protein. The enzymes exhibit high purity after filtration, which eliminates the need for costly chromatographic procedures.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053714 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : Multifunctional Agricultural Implement

(51) International classification	:A01B0049060000, A01C0015000000, G06F0016248000, H04N0021462000, G06F0016240000	(71) <b>Name of Applicant :</b> <b>1)The Registrar</b> Address of Applicant :Keladi Shivappa Nayaka University of Agricultural and Horticultural Sciences (UAHS) Navile, Shivamogga 577204 Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)I. Sharanappa Jangandi</b>
(33) Name of priority country	:NA	<b>2)M. Hanumantappa</b>
(86) International Application No	:PCT//	<b>3)K. Aravinda Yadav</b>
Filing Date	:01/01/1900	<b>4)G. Srinivas Murthy</b>
(87) International Publication No	: NA	<b>5)Rajshekar D Barker</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Halijol Shidaram Sangappa</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

MULTIFUNCTIONAL AGRICULTURAL IMPLEMENT A multi-functional agricultural implement is disclosed in the present invention which can perform the operations of weeding, spraying or fertilizer application simultaneously. It is efficient, economically viable and can be operated manually even by unskilled laborers and women. Fig 1

No. of Pages : 20 No. of Claims : 4

(54) Title of the invention : SMART CRADLE WITH INTRUDER ALERT SYSTEM

<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 Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:A61K0036906400, G05B0013040000, G05D0023190000, G05B0011420000, G05B0005010000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)MRS. K. M. NANDHINI</b> Address of Applicant :BANNARI AMMAN INSTITUTE OF TECHNOLOGY, ALATHUKOMBAL POST, SATHYAMANGALAM, ERODE DISTRICT, TAMIL NADU - 638401 Tamil Nadu India</p> <p><b>2)DR. C. KUMAR</b></p> <p><b>3)MR. S. SAKTHIYA RAM</b></p> <p><b>4)MR. M. R. PRATHAP</b></p> <p><b>5)DR. K. S. VAIRAVEL</b></p> <p><b>6)MS. K. RAMYA</b></p> <p><b>7)MR. P. NARENDRA ILAYA PALLAVAN</b></p> <p><b>8)MR. V. PRABHU</b></p> <p><b>9)MR. N. IKRAM</b></p> <p>(72)Name of Inventor :</p> <p><b>1)MRS. K. M. NANDHINI</b></p> <p><b>2)DR. C. KUMAR</b></p> <p><b>3)MR. S. SAKTHIYA RAM</b></p> <p><b>4)MR. M. R. PRATHAP</b></p> <p><b>5)DR. K. S. VAIRAVEL</b></p> <p><b>6)MS. K. RAMYA</b></p> <p><b>7)MR. P. NARENDRA ILAYA PALLAVAN</b></p> <p><b>8)MR. V. PRABHU</b></p> <p><b>9)MR. N. IKRAM</b></p>
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(57) Abstract :

Cardamom is known as queen of spices and it is a third expensive commodity in the international market. It is an important spice in both commercial and medical field even from an ancient period. It can be available in various forms like powder, seed, oleoresin, oil etc. The whole process of cardamom requires keen monitoring from harvesting to packing period. Drying is one of an important stage in a process. Temperature is the prominent physical parameter for drying the cardamom. But maintaining the temperature for this process is quite complex because of its high non-linearity. In this process, Air flow temperature station consists of blower, RTD, Heater, SCR power controller, delay coil and butterfly output hand valve. The heater can be controlled by varying SCR input current, which can be generated by controller programming. Conventionally, the required temperature is achieved by Proportional Integral Derivative controller (PID). Due to the high non-linearity of the system, PID fails to provide the desired output response in this process like minimal peak . overshoot and steady state error. For obtaining accurate response, in this process Fuzzy logic controller technique is used. Fuzzy logic controller analyses the design parameters of the system and reduces the complexity of the system when compared with the PID controller. It provides faster response than all other conventional control design.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053813 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR REDUNDANT BACKUP OF DATASETS

(51) International classification :G06F0011140000,  
H04L0012707000,  
G06F0011340000,  
G06F0011160000,  
G06F0003048400

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :800 W California Ave, Suite 100,  
Sunnyvale, California 94086 USA U.S.A.

(72)Name of Inventor :

**1)Sandeep Ghadge**

**2)Sudeep Jathar**

(57) Abstract :

A system for dynamically optimizing redundant backup of one or more data sets of a plurality of data sets from a client device to a tertiary storage is presented. The system includes a user input module, a parameter comparison module, a backup path selector, and a redundant backup module. The system is configured to dynamically switch between two backup paths including: (A) direct redundant backup of the data set from the client device to the tertiary storage, or (B) back up of the data set from the client device to a secondary storage and redundant backup of the data set from the secondary storage to the tertiary storage. A related method is also presented.

No. of Pages : 35 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053874 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : Michler's ketone: $\beta$ -cyclodextrin Inclusion Complex for Enhancing the Ultraviolet Protection Factor of Cotton Fabric

(51) International classification	:B82Y0005000000, A61K0047690000, D06M0011460000, D06M0101060000, D06M0011440000	(71)Name of Applicant : <b>1)Sivakumar Krishnamoorthy</b> Address of Applicant :Plot No. 26, Ma. Po. C. Street, Anna Nagar Extension, Vaiyavur Road. Big Kanchipuram. Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Sivakumar Krishnamoorthy</b>
(33) Name of priority country	:NA	<b>2)A. Nalini</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 enhancement of ultraviolet protection factor (UPF) of cotton fabric using Michler's ketone [mk] (4,4' bis(N,N-dimethylamino)benzophenone): $\beta$ -cyclodextrin (mk: $\beta$ -CD) host guest inclusion complex. Based on the investigation we found that the cotton fabric treated with mk: $\beta$ -CD inclusion complex exhibits enhanced UPF value than the native mk. The highest UPF value of mk: $\beta$ -CD complex treated poplin fabric is attributed to the enhanced UVR dissipation by mk due to the rigid fit rendered by host molecule;  $\beta$ -CD. The holding of mk by  $\beta$ -CD enhances the UVR dissipation and hence facilitates the native red-shifted emission and non-radiative relaxation by the formation of twisted intramolecular charge transfer in mk. Hence, mk: $\beta$ -CD inclusion complex could be used a potential UVR filter in cotton fabric.

No. of Pages : 22 No. of Claims : 3



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053932 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SEED AND SAPLING PLANTING APPARATUS FOR SOWING OF SEEDS AND PLANTING OF SAPLINGS

(51) International classification :A01C0005040000,  
A01G0017000000,  
A01C0007080000,  
A01C0007000000,  
G06Q0030060000

(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT//  
Filing Date :01/01/1900  
(87) International Publication No : NA  
(61) Patent of Addition to Application Number:NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :H.No: 1-116/1A, Beside Church,  
Chandanagar, Hyderabad - 500050 Telangana India

(72)Name of Inventor :

**1)Trivikram Kumar Dogga**

**2)Dharmateja Mediboina**

(57) Abstract :

A SEED AND SAPLING PLANTING APPARATUS FOR SOWING OF SEEDS AND PLANTING OF SAPLINGS ABSTRACT A seed and sapling planting apparatus (100) for sowing of seeds and planting of saplings is disclosed. The seed and sapling planting apparatus (100) includes an integrated seed and sapling planting assembly (110) including an automated seed and sapling dropper (102) for storing seeds and saplings and transfers the seeds and saplings to a storage hooper 108 through a seed and sapling dropping area (212). The storage hooper (108) is mechanically arranged on a punching device (300). The punching device (300) is mechanically connected to a second electric motor (304) for rotating the punching device (300) using a linkage mechanism (302). The punching device (300) (a) collects seeds and saplings from storage hooper (108) when the punching device (300) is at upper position during rotation, and (b) releases seeds and saplings into ground surface using a beak unit (114) when the punching device (300) is at lower position during rotation. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053935 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : Method And System For Managing Operation Of A Battery

(51) International classification	:H01M0010440000, H02J0007000000, H01M0010420000, G01R0031392000, B60L0055000000	(71) <b>Name of Applicant :</b> <b>1)Samsung Electronics Co., Ltd.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)P K, Deekshith</b>
(33) Name of priority country	:NA	<b>2)S HARIHARAN, Krishnan</b>
(86) International Application No	:PCT//	<b>3)AGARWAL, Samarth</b>
Filing Date	:01/01/1900	<b>4)SWERNATH, Subramanian</b>
(87) International Publication No	: NA	<b>5)HAN, Seongho</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present subject matter refers a method for managing operation of a battery. The method comprises measuring a first plurality of battery parameters with respect to an initial charging– discharging cycle of the battery, measuring a second plurality of battery parameters with respect to a subsequent charging– discharging cycle of the battery, determining a relative entropy by comparing the first and second plurality of battery parameters measured during the first and second charging-discharging cycles, and extrapolating the relative entropy value to predict a number of cycles after which a battery capacity is likely to drop.

No. of Pages : 35 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053941 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD AND SYSTEM FOR MIXING PRE-CUT FILAMENTS

(51) International classification	:B01D0033333000, B01D0046180000, G02B0027100000, D04H0001422600, A61B0017000000	(71) <b>Name of Applicant :</b> <b>1)Jehangir Pervez</b> Address of Applicant :Flat No. A 301, Casa Grande, Sturrock Road, Falnir, Mangalore, Dakshina Kannada, Karnataka – 575001 Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Jehangir Pervez</b>
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 for mixing pre-cut filaments comprising a first conveyor(110), a first travelling band configured to move about the first conveyor(120), a second conveyor(130), and, a second travelling band configured to move about the second conveyor(140) wherein all four coordinatively, place the pre-cut filaments onto the first travelling band(120), (210), pre-position the first conveyor(110) above the second conveyor(130), (220), pre-lay the placed pre-cut filaments on the first travelling band(120) onto the second travelling band (140), (230), position the first conveyor(110) below the second conveyor(130), (240), lay the pre-laid pre-cut filaments on the second travelling band(140) onto the first travelling band(120), (250), re-position the first conveyor(110) above the second conveyor(130), (260), re-lay the laid pre-cut filaments on the first travelling band(120) onto the second travelling band(140), (270), and, obtain a homogenous mixture of the pre-cut filaments(280).

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054020 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : ORIENTED LONG NATURAL-FIBER PANEL PRODUCT BONDED WITH SHORT NATURAL-FIBER REINFORCED THERMOPLASTIC COMPOSITE AND PROCESS THEREOF

(51) International classification	:C08J0005040000, B32B0005020000, B29L0031300000, C08J0005240000, B29K0311100000	(71) <b>Name of Applicant :</b> <b>1)INSTITUTE OF WOOD SCIENCE AND TECHNOLOGY (IWST)</b> Address of Applicant :18th Cross, Malleshwaram, Bangalore - 560003, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)CHAUHAN, Shakti Singh</b>
(33) Name of priority country	:NA	<b>2)KUMAR, Ritesh</b>
(86) International Application No	:PCT//	<b>3)ARYA, Siddhartha</b>
Filing Date	:01/01/1900	
(87) 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 an oriented long natural-fiber panel product bonded with short natural-fiber reinforced thermoplastic composite and process thereof. The oriented long natural-fiber panel product bonded with short natural-fiber reinforced thermoplastic composite comprises of two components i.e a first component comprising of short fiber reinforced NFRT with short fiber; and a second component comprising of long unidirectional or bidirectional fiber/fabric. Further, the present invention also discloses a process for preparation of same and comprises the steps of: (i) preparation of bamboo fiber/wood fiber; (ii.) preparation and extrusion of natural fiber filled polymer composite NFRT pellets; and (iii) preparation of novel composite using long natural fiber and NFRT by compression molding. The NFRT based hybrid composite provides a possibility to utilize recycled polymers and completely bio compostable as manufactured with bio-polymers such as PBAT and poly lactic acid (PLA).

No. of Pages : 53 No. of Claims : 16

(54) Title of the invention : SPECIALIZED CLEANING SYSTEM FOR CLEANING HARD FLAT VERTICAL SURFACES

(51) International classification	:C02F0001000000, C02F0009000000, B01D0017020000, C02F0001320000, H02S0040100000	(71)Name of Applicant : <b>1)WCB ROBOTICS INC.</b> Address of Applicant :1675 South State St. Suite B, Dover, County Kent, DE 19901, United States of America. U.S.A.
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)AGGARWAL, Ujjawal</b>
(33) Name of priority country	:NA	<b>2)PANDYA, Yash</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 specialized cleaning system for cleaning hard flat vertical surfaces. The specialized cleaning system comprising a cleaning brush (4) with an integrated water dispensing (3), a wiper (5) with integrated water collection (6), a separator (7) which separates the water from the mixture of water and air that was sucked in, multiple pumps (2 and 9), an optional filter (8) and a water storage tank (1). As the said novel cleaning system and process uses a combination of water reservoir and suction pump, the spilling or running of water is prevented. Further, this also allows the system to work in both the direction i.e. from top to bottom of the high-rise building or from bottom to top of the building. Also, the said process is a cyclic process i.e. the water from the reservoir (1) is reused in every cycle of the operation. Figure 1

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

(54) Title of the invention : A METHOD FOR OPTIMIZING AD CAMPAIGNS BY GENERATING AUDIENCE COHORTS OF iOS USERS

(51) International classification	:G06Q0030020000, G06Q0050000000, G06N0003080000, G06N0005040000, G06N0020000000	(71) <b>Name of Applicant :</b> <b>1)AIQUIRE INC.</b> Address of Applicant :1446, Pinehurst Drive, Vernon Hills, Illinois 60061,USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vrushali Prasade</b>
(33) Name of priority country	:NA	<b>2)Satyam Vivek</b>
(86) International Application No	:PCT//	<b>3)Shubham Mishra</b>
Filing Date	:01/01/1900	
(87) 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 OPTIMIZING AD CAMPAIGNS BY GEENATING AUDIENCE COHORTS OF iOS USERS The present disclosure provides a method for optimizing ad campaigns of iOS users. The method comprises collecting (201) data input from data sources, by a data module, generating (202) audience cohorts based on the data input, by an audience cohort generation module, ranking (203) the audience cohorts based on parameters, by a cohort ranking module, generating (204) clusters of ad sets based on similar targeting, by ad publishing module, assigning (205) a confidence metric to the cluster based on performance of the ad set, by the ad publishing module, enabling and/or disabling (206) ad sets based on confidence metric, by the ad publishing module, analyzing (207) performance of the ad sets and transmitting feedback of the performance to an artificial intelligence module, by a social media platform and attribution platform and optimizing (208) performance of the ad sets based on the feedback of the performance, by the artificial intelligence module. Fig. 2

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054066 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : DOCUMENTATION OF A NEW SMECTIC ORDERING X IN THERMOTROPIC LIQUID CRYSTALS

(51) International classification :C09K0019380000,  
A61Q0011000000,  
C09K0019520000,  
G02F0001141000,  
A61K0047590000

(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)M L N Madhu Mohan**

Address of Applicant :Liquid crystal research laboratory  
Bannari Amman Institute of Technology Tamil Nadu India

**2)N Pongali Sathya Prabu**

(72)Name of Inventor :

**1)M L N Madhu Mohan**

**2)N Pongali Sathya Prabu**

(57) Abstract :

In this patent identification of a new smectic ordering in a thermotropic liquid crystal is disclosed. A hydrogen bond liquid namely Malic with octyloxy benzoic acid, Malic acid with nonyloxy benzoic acid, Malic acid with decyloxy benzoic acid, Malic acid with undecyloxy benzoic acid and Malic acid with dodecyloxy benzoic acid are used which are abbreviated as MA+8BAO, MA+9BAO, MA+10BAO, MA+11BAO and MA+12BAO respectively. These liquid crystals are used for observing and recording a new smectic ordering. The synthesis route of this liquid crystal described by a step wise chemical process is detailed. The molecular structure, characteristics, temperature range and textural recording are disclosed.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054074 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SYSTEM AND METHOD FOR A RELIABLE MTP USING OTP MEMORIES

(51) International classification	:G11C0017160000, G11C0017180000, G11C0029000000, G11C0029440000, G06F0012020000	(71)Name of Applicant : <b>1)BHARAT ELECTRONICS LIMITED</b> Address of Applicant :Outer Ring Road, Nagavara, Bangalore – 560045, Karnataka, India Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Ashok Kumar Rajalingam</b>
(33) Name of priority country	:NA	<b>2)Sharath Hariharapura Subashchandra</b>
(86) International Application No	:PCT//	<b>3)Lakshman Arumugam</b>
Filing Date	:01/01/1900	<b>4)Viswanatha Basavapatna Saikantasetty</b>
(87) International Publication No	: NA	<b>5)Umamaheswaran Sangaiah</b>
(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 system to function as an MTP (Multiple-Time Programmable memory, the system comprising a processor (602), and an MTP memory operatively connected to the processor (602). The MTP memory comprises a count register (200) configured to store a program count and a block size, an OTP (One-Time Programmable) memory (102) having a plurality of OTP blocks. The OTP blocks is configured to store a single bit of input data, generate a block address bit based on count stored in the count register, and an input address to access different blocks of the OTP memory (102), identify bits of the input data that failed while storing in the OTP memory (102) and restore the bits of the failed input data into previous block redundant OTP memory (102).

No. of Pages : 32 No. of Claims : 7



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054091 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN IMPROVED PROCESS FOR THE PREPARATION OF CRYSTALLINE FORM-A OF CYANTRANILIPROLE

(51) International classification	:A01N0043560000, C07D0239940000, C07D0239720000, C07D0239860000, C07D0401140000	(71) <b>Name of Applicant :</b> <b>1)Natco Pharma Limited</b> Address of Applicant :Natco House, Road No.2 Banjara Hills, Hyderabad. Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)JAMPANI AMARNATH</b>
(33) Name of priority country	:NA	<b>2)ARUDRA VEERAI AH</b>
(86) International Application No	:NA	<b>3)SAMATHAM RADHA RANI</b>
Filing Date	:NA	<b>4)RAVI JANAKI RAMA RAO</b>
(87) International Publication No	: NA	<b>5)KONAKANCHI DURGA PRASAD</b>
(61) Patent of Addition to Application Number	:NA	<b>6)MUDDASANI PULLA REDDY</b>
Filing Date	:NA	<b>7)NANNAPANENI VENKAIAH CHOWDARY</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The present invention relates to an improved process for the preparation of Crystalline Form-A of Cyantraniliprole of Formula-I.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054098 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : VIRTUAL MODEL FOR COMPLEX CONGENITAL HEART DISEASES

(51) International classification :H04W0024080000,  
G09B0023280000,  
A61B0007040000,  
A61B0005000000,  
A61B0005040000

(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)Manipal Academy of Higher Education**

Address of Applicant :Madhav Nagar, Manipal, 576104,  
Karnataka, India. Karnataka India

(72)Name of Inventor :

**1)KUMAR, Sampath**

**2)NAYAK, Krishnananda**

**3)ANANTHAKRISHNA T**

(57) Abstract :

The present disclosure relates to a system (100) for auscultation education, the system comprising a computing device (102) having a database (106) configured to store one or more audio packets pertaining to a set of cardiac signals associated with heart of a subject, a three-dimensional device (104) having a three-dimensional pathway coupled to the computing device (102) to receive one or more audio packets for examination. A processor configured to receive the audio packets pertaining to the set of cardiac signals and generate the set of cardiac signals to convey to corresponding audio units, wherein on receipt of the set of cardiac signals, the corresponding audio units are activated in proper sequence at a time interval to indicate the flow of signal within the three-dimensional pathway of the three-dimensional device.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054159 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD FOR GENERATING WHITE LIGHT USING WL-GQD.

(51) International classification	:C01B0032182000, C09K0011650000, B82Y0020000000, G09G0003322500, H01L0051500000	(71)Name of Applicant : <b>1)Indian Institute of Technology Madras (IIT Madras)</b> Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [IC&SR], Indian Institute of Technology Madras, IIT PO, Chennai-600036, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Prem Ballabh Bisht</b>
(33) Name of priority country	:NA	<b>2)Vijay Kumar Sagar</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 generating white light using WL-GQD Embodiments herein provide a method for generating white light using white light emitting quantum dots (WL-GQD). The method includes mixing a polycyclic aromatic hydrocarbon as a carbon precursor and a heteroatoms co-doping compound in deionized (DI) water to obtain a mixture and fabricating heteroatoms co-doped graphene quantum dots by performing a thermal procedure on the mixture. The polycyclic aromatic hydrocarbon is Naphthalene and the heteroatoms co-doping compound is thiourea. The method also includes obtaining the WL-GQD by drying residue of the fabricated heteroatoms co-doped graphene quantum dots; and generating the white light by using the obtained WL-GQD.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054160 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : COMPACT PERSONALIZED AIR CONDITIONER FOR DOUBLE COT WITH LOW POWER CONSUMPTION

(51) International classification	:B60H0001320000, F24F0005000000, F25B0009000000, F04B0017000000, F24F0001022000	(71)Name of Applicant : <b>1)Dr. M RAVI KUMAR</b> Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, BANNARI AMMAN INSTITUTE OF TECHNOLOGY, ALATHUKOMBAL POST, SATHYAMANGALAM, ERODE DISTRICT TAMIL NADU- 638 401 Tamil Nadu India <b>2)Mr. K B PRAKSH</b> <b>3)Mr. M CHANDRASEKARAN</b> <b>4)Mr. A ARAVINTHA RAJ</b> <b>5)Mr. M PRADEEP</b> <b>6)Mr. K BOOPATHI</b> <b>7)Mr. P ILAVARASAN</b> <b>8)Mr. S DINESHBABU</b> <b>9)Mr. S NIKESH</b> <b>10)Mr. K TAMILSELVAN</b>
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1) Dr. M RAVI KUMAR</b> <b>2)Mr. K B PRAKSH</b> <b>3)Mr. M CHANDRASEKARAN</b> <b>4)Mr. A ARAVINTHA RAJ</b> <b>5)Mr. M PRADEEP</b> <b>6)Mr. K BOOPATHI</b> <b>7)Mr. P ILAVARASAN</b> <b>8)Mr. S DINESHBABU</b> <b>9)Mr. S NIKESH</b> <b>10)Mr. K TAMILSELVAN</b>
(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 :

This work focuses on the design and fabrication of the compact personalized air conditioning system for home and hospital patient application. This work also focuses on the reduction of power consumption by reducing the cooling area and by introducing the compact AC system, which consumes low energy say 480W. Indirectly this work avoids the usage of refrigerant for cooling purposes. And contributes to less global warming. The current air-conditioning system does cooling by refrigerant gases such as Freon, CFCs, etc. This system also works by same method but its size is very low. This one is a small air conditioning system that only cools the area surrounding your bed. This compact personal double cot bed air conditioning system consumes approximately 480 watts of power, which is roughly comparable to three light bulbs. The bed Air Conditioner weighs only 10 kg. In terms of measurements, this is less than 8 inches in height, 11 inches long, and 18 inches deep, it is much more than a cooling system. It runs more efficiently now that the cooling zone has been specified. It is self-installable and does not demand the services of a professional, nor does it necessitate any adjustments to the civil construction of the residence. It can also be powered by a 1KVA inverter and is compatible with any 5 Ampere plug.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054167 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR PRODUCT SOURCING

(51) International classification	:G06Q0010060000, G06F0003048800, G06Q0010080000, G06Q0040000000, G06F0003035400	(71) <b>Name of Applicant :</b> <b>1)INFOSYS LIMITED</b> Address of Applicant :44, Infosys Avenue, Electronics City, Hosur Road, Bangalore, 560100, Karnataka. Karnataka India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Majush Koshy Philip</b>
(33) Name of priority country	:NA	<b>2)Divyesh Hasmukhrai Parekh</b>
(86) International Application No	:NA	<b>3)Kiran Sharadchandra Mandrekar</b>
Filing Date	:NA	
(87) 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 PRODUCT SOURCING ABSTRACT Disclosed is a method and system for optimal product sourcing. For each combination of the products requested in an order, and for each fulfilling location, the value of multiple parameters is calculated. Ranking of each parameter is also used while calculating the values. The calculated values along with the combinations of products and the fulfilling locations are provided to an optimization engine, and an optimal sourcing option is received as an output.  
Fig No.2

No. of Pages : 26 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054174 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : POINT CLOUD ADJACENCY-MAP AND HASH-MAP ACCELERATOR

(51) International classification	:H04L0005000000, H04L0029080000, H04N0005232000, G06N0003063000, G06T0015000000	(71) <b>Name of Applicant :</b> <b>1)INTEL CORPORATION</b> Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Gurpreet S. Kalsi</b>
(33) Name of priority country	:NA	<b>2)Om Ji Omer</b>
(86) International Application No	:NA	<b>3)Prashant Laddha</b>
Filing Date	:NA	<b>4)Kamlesh R. Pillai</b>
(87) International Publication No	: NA	<b>5)Anirud Thyagarajan</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Meenal Kudalkar</b>
Filing Date	:NA	<b>7)Krishnan Ananthanarayanan</b>
(62) Divisional to Application Number	:NA	<b>8)Sreenivas Subramoney</b>
Filing Date	:NA	

(57) Abstract :

An embodiment of an apparatus comprises a hardware accelerator to perform a three-dimensional (3D) point cloud data access operation, and circuitry coupled to the hardware accelerator to control the hardware accelerator to perform the 3D point cloud data access operation in response to a request. Other embodiments are disclosed and claimed.

No. of Pages : 72 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054196 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD OF, A NODE DEVICE AND A SYSTEM FOR CONTROLLING A RELAY FEATURE OF A NODE DEVICE IN A MESH NETWORK

(51) International classification	:H04W0040240000, H04W0084180000, H04L0012733000, H04W0076100000, H04W0008000000	(71) <b>Name of Applicant :</b> <b>1)SIGNIFY HOLDING B.V.</b> Address of Applicant :High Tech Campus 48, NL-5656 AE Eindhoven, The Netherlands. Netherlands
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)GADRE, Mangesh Pandurang</b>
(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 of controlling a relay feature of a first node device in a mesh network is disclosed. The network comprises a plurality of operatively interconnected node devices including the first node device and a number of further node devices, a relay feature of each node device having an initial status of being enabled. The method is performed by the first node device and comprises the steps of: receiving a relay optimization message; transmitting a neighbour relay discovery request to the number of further node devices, after a random waiting period; awaiting neighbour relay discovery responses from the number of further node devices until expiration of a response period started upon transmission of the neighbor relay discovery request, wherein a neighbour relay discovery response is received from a further node device when the further node device operates in a responding mode; disabling its relay feature if a number of the neighbour relay discovery responses is more than or equal to a threshold value.

No. of Pages : 31 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054205 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INFORMATION OF STATUS OF THE SENT OR RECEIVED MESSAGE IN A GROUP WITH A COMMUNICATION LINK IN A DIGITAL COMMUNICATION PLATFORM

(51) International classification	:H04L0012580000, H04M0001725000, G06F0016182000, H04Q0003640000, H04W0004120000	(71) <b>Name of Applicant :</b> <b>1)SARATH KAKUMANU</b> Address of Applicant :KPOST SOFTWARE PVT LTD, GREENWAYS TOWER (II FLOOR) 119, ST. MARY'S RD, ABHIRAMAPURAM, MANDAVELI, CHENNAI- 600018, TAMILNADU, INDIA Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SARATH KAKUMANU</b>
(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 INFORMATION OF STATUS OF THE SENT OR RECEIVED MESSAGE IN A GROUP WITH A COMMUNICATION LINK IN A DIGITAL COMMUNICATION PLATFORM A system and method for viewing the message status information of the group message sent or received and communicate with the members in the group either through message or any type of call option from the message status information screen itself privately. Every member in the group have the option to view the message information detail (message read time and date, group member name, group member profile picture) from the screen itself in single click. If necessary they can communicate among members in the group through the message and call option. The message status information for each message in the message conversation string can be viewed independently. Additionally the message read members and message unread members in the group are viewed separately in the message status information folder for the utmost user convenience. Providing a sophisticated way of viewing the message status information of the group message with communication links, the said messaging application gives the users a greatest flexibility. Fig. 24

No. of Pages : 62 No. of Claims : 12



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054206 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : RAPID METHOD FOR ROOM TEMPERATURE REVERSE TRANSCRIPTION LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (RT-LAMP) AND REAGENT KIT

(51) International classification	:C12Q0001684400, C12Q0001700000, A61K0031401500, C12R0001940000, C12N0009500000	(71) <b>Name of Applicant :</b> <b>1)D-NOME PRIVATE LIMITED</b> Address of Applicant :3rd Floor, AIC-CCMB, CCMB Annex-2, Genpact Road, IDA UPPAL, Hyderabad, Telangana, India, Pincode 500007 Telangana India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)SUJOY DEB</b>
(33) Name of priority country	:NA	<b>2)DIVYA SRIRAM</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 rapid method to perform reverse transcription loop-mediated isothermal amplification (RT-LAMP) and LAMP at room temperature between 25-42°C, more specifically at 25-37°C, to detect RNA/DNA in a sample and a reagent kit thereof. Further, the invention relates to an in vitro method to detect SARS-CoV2 using RT-LAMP at room temperature between 25-42°C, more specifically at 37°C. The reagent kit comprises of enzymes/proteins - Klenow exo-/-, ApaI, High fidelity Taq Pol, Rpa32, StpA, AMV-RT for reverse transcriptase; buffer composition of - Tris-HCl, MgSO4, KCl, DTT, PEG, DMSO, 1mM dNTPs each, at least 4 primers, and fluorescent or colorimetric dye.

No. of Pages : 43 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054242 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD AND SYSTEM FOR OPTIMIZING SAMPLING IN SPOT TIME-OF-FLIGHT (TOF) SENSOR

(51) International classification	:G06K0009460000, G01S0007480000, G06F0017180000, G01S0017890000, G06T0007246000	(71)Name of Applicant : <b>1)SAMSUNG ELECTRONICS CO., LTD.</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)SRENIVAS VARADARAJAN</b>
(33) Name of priority country	:NA	<b>2)KAUSTAV CHANDA</b>
(86) International Application No	:NA	<b>3)MANISH GOEL</b>
Filing Date	:NA	<b>4)KWANGHYUK BAE</b>
(87) 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 optimizing sampling in a spot Time-of-Flight (ToF) sensor includes receiving an image of a scene, dividing the image into plural rectangular regions, based on an edge feature in the image, computing an edge region alignment for each rectangular region by analyzing a Histogram of oriented Gradients (HoG) distribution corresponding to the rectangular region, re-projecting ToF data on a Complementary Metal Oxide Semiconductor (CMOS) Image Sensor (CIS) image plane according to the edge region alignment, sampling one or more rectangular regions from among the plural rectangular regions by comparing a regional depth variance of each rectangular region with a threshold depth variance, and reconfiguring an illumination pattern for a spot ToF sensor image frame using the one or more rectangular regions that are sampled. FIG. 1

No. of Pages : 36 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054380 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IOT EDGE DEVICES UTILIZING MULTI-TRANSPORT MEDIUMS (BLUETOOTH MESH, WIFI MESH, CELLULAR) TO CONTROL DELAY AND JITTER

(51) International classification	:H04L0012801000, H04H0020260000, H04L0012823000, H04L0012260000, H04L0012707000	(71)Name of Applicant : <b>1)HITACHI ENERGY SWITZERLAND AG</b> Address of Applicant :Bruggerstrasse 72, 5400 Baden, Switzerland Switzerland (72)Name of Inventor : <b>1)Deepaknath Tandur</b>
(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	

(57) Abstract :

An apparatus comprising at least one integrated circuit configured to cause the apparatus to: determine delay information and/or jitter information for a first plurality of data units in a first data transmission, the first plurality of data units in the first transmission being received by a receiving device via a plurality of different connections from a transmitting device; in dependence on the determined delay information and/or jitter information for the first plurality of data units, determine for a second transmission of a second plurality of data units, which one or more of the second plurality of data units is to provide redundant data, the second transmission to be received by the receiving device via the plurality of different connections between the transmitting device and the receiving device, the second transmission being subsequent to the first transmission; and cause information about which one or more of the second plurality of data units is to provide redundant data, to be provided to the transmitter. Figure 2

No. of Pages : 41 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054383 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SPINNING MACHINE WITH LINEAR ACTUATORS

(51) International classification	:F16M0011200000, F16M0011100000, F03B0017020000, F03G0003000000, B06B0001020000	(71)Name of Applicant : <b>1)Y MOHAMMED NAFEES</b> Address of Applicant :22/5 DARGA STREET DADASHAMAKHAN Tamil Nadu India <b>2)AMEERUNNISA N</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Y MOHAMMED NAFEES</b>
(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 spinning device that rotates by changing the masses in the different position in the device which is achieved by using a linear movement actuator, by changing the masses in different position in the device the centre of gravity of the device also changes due to this the device is rotated and the side where the centre of gravity act is driven down due to gravity and the rotational energy which is created from the device is used to generate electricity by connecting a generator to the output shaft of the device.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054411 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND SYSTEMS FOR INSTITUTE TO INSTITUTE DIGITAL EDUCATIONAL ASSETS COLLABORATION

(51) International classification :H04L0029060000,  
G06Q0050200000,  
G06F0021620000,  
H04L0029080000,  
G09B0005120000

(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)Edui2i Private Ltd**

Address of Applicant :Edui2i Private Ltd Indian India House  
No. 21, Street Laxmi Vihar Phase 2,Nallagandla City Lingampalli,  
Hyderabad State Telangana Country India Pin code 500019  
Telangana India

(72)Name of Inventor :

**1)Linga Naveen Kumar**

**2)Venkata Tirupathi Rao J**

(57) Abstract :

ABSTRACT METHODS AND SYSTEMS FOR INSTITUTE TO INSTITUTE DIGITAL EDUCATIONAL ASSETS COLLABORATION Embodiments disclosed herein relate to a platform (140) and method for enabling collaboration of institutes by allowing a first institute to share its digital educational assets with a second institute. The method disclosed herein allows a first institute to receive a request to share its digital educational assets from a plurality of other institutes, and upon granting access enabling the members of the plurality of other institutes to have access to the first institute's digital educational assets. The method disclosed herein also allows for collaboration of an institute with an associate, which allows for an institute to request access to digital educational assets created by an associate, and upon granting access enabling members of the institute to have access to the first institute's digital educational assets. FIG. 9

No. of Pages : 47 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054454 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : AN ARECA PELLET AND METHOD OF MAKING THE SAME

(51) International classification	:A61K0036889000, A23L0019000000, A61K0036732000, C09K0017400000, A23G0004060000	(71)Name of Applicant : <b>1)PRASANNAKUMARAN KM</b> Address of Applicant :1/242, South car street, Emaneshwaram paramakudi, Tamil Nadu, India 632701. Tamil Nadu India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)PRASANNAKUMARAN KM</b>
(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 AN ARECA PELLET AND METHOD OF MAKING THE SAME The present invention provides an areca pellet for the cattle food. The areca pellet contains 30% - 40% areca waste powder, 15% - 20% sorghum, 10% - 20% coconut cake, 10% - 15% maize, and 3% - 5% sesame cake. The areca waste is 5 obtained from the areca plates making industry and processed to make it eatable for the cattle. The areca pellet provides at least 150 Kcal.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054491 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : IDENTIFYING HYBRID CONNECTIVITY FOR TRAFFIC FLOWS IN A MULTI-CLOUD ENVIRONMENT

(51) International classification	:H04L0029080000, H04L0012260000, H04W0076100000, H04L0012707000, H04L0012911000	(71) <b>Name of Applicant :</b> <b>1)VMWARE, INC.</b> Address of Applicant :3401 Hillview Avenue, Palo Alto, California - 94304, United States of America U.S.A.
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)PRAHALAD GOWARDHAN DESHPANDE</b>
(33) Name of priority country	:NA	<b>2)AMBARISH PRASHANT PANDE</b>
(86) International Application No	:NA	<b>3)AVINASH NIGAM</b>
Filing Date	:NA	<b>4)VISHAL RANJAN</b>
(87) 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 example method of identifying a hybrid connection associated with a network flow in a multi-cloud computing system includes: obtaining, by a network analyzer, network information from a plurality of data centers in the multi-cloud computing system, the plurality of data centers corresponding to a respective plurality of namespaces; identifying Internet Protocol (IP) subnetworks associated with the hybrid connection from the network information; generating connection indexes for the namespaces relating source IP subnetworks of the IP subnetworks, destination IP subnetworks of the IP subnetworks, and an identifier for the hybrid connection; searching a source IP address and a destination IP address of a flow record for the network flow in the connection indexes to obtain the identifier for the hybrid connection; and tagging the flow record with the identifier for the hybrid connection. [FIG. 1]

No. of Pages : 42 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054520 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND SYSTEMS FOR CELL RESELECTION IN A WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04W0076270000,  
H04W0024020000,  
H04W0036000000,  
H04W0048160000,  
H04L0005000000

(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)Samsung Electronics Co., Ltd.**  
Address of Applicant :129, Samsung-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Republic of Korea  
(72)Name of Inventor :  
**1)ROY, Koustav**  
**2)SEN, Arijit**  
**3)GUHA, Shouvik**  
**4)SHAH, Nitesh Pushpak**

(57) Abstract :

The present disclosure relates to system and method (1100) for cell reselection in a wireless communication system. The method (1100) comprises determining (1101) whether a User Equipment (UE) is in an inactive mode supported by a serving cell and detecting (1103) a trigger for reselection of the serving cell for the UE, while the UE is in the inactive mode. The method (1100) further comprises identifying (1105), based on the detection, a plurality of neighbouring cells available for being connected to the UE. The method (1100) also comprises selecting (1107) a first cell, from among the plurality of the neighbouring cells, that supports the inactive mode of the UE, for connecting with the UE.

No. of Pages : 64 No. of Claims : 22



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054549 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A METHOD FOR DETERMINING FLUORIDE IN NATURAL WATERS AND FABRICATION OF A BIODEGRADABLE COLORIMETRIC FILM

(51) International classification	:G01N0021780000, G01N0031220000, G01N0033520000, G01N0021840000, G06F0030367000	(71)Name of Applicant : <b>1)JSS ACADEMY OF TECHNICAL EDUCATION</b> Address of Applicant :JSSATE-B Campus Dr. Vishnuvardhan Road Srinivasapura, Bengaluru-560060, Karnataka Karnataka India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)DR. CHAMARAJA N A</b>
(33) Name of priority country	:NA	<b>2)DR. MAHESH B</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 FOR DETERMINING FLUORIDE IN NATURAL WATERS AND FABRICATION OF A BIODEGRADABLE COLORIMETRIC FILM The present invention relates to a method for determining fluoride in natural waters and Fabrication of a biodegradable colorimetric film. Particularly, the method employs Metal- salt complex with a dramatic color development in an aqueous solution, which is manipulated as a means for visual detection. Moreover, a novel biofilm is integrated with the reagents aiming at the field analysis using smart phone. The present invention provides a fast, easy, and efficient, low-cost spectrophotometric technique. The method corresponds with a dramatic color development in an aqueous solution, which is manipulated as a means for visual detection. Further, a new bio-film is integrated with the reagents aiming at the field analysis using smart phone. The method determines fluoride concentration in surface and groundwater by the spectrophotometric approach exercising the Iron- Sulphosalicylic acid (SSA) red complex, which shows  $\lambda_{max}$  at 500 nm. Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054561 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A RECONFIGURABLE AND SCALABLE MULTI-CORE ANALOG COMPUTING CHIP

(51) International classification	:G06F0015780000, G07F0007080000, G10L0019240000, H04N0019330000, G01N0015000000	(71)Name of Applicant : <b>1)Indian Institute of Science</b> Address of Applicant :CV Raman Road, Bengaluru, Karnataka 560012, India Bangalore Karnataka India <b>2)Washington University</b>
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Chetan Singh Thakur</b>
(33) Name of priority country	:NA	<b>2)Shantanu Chakrabartty</b>
(86) International Application No	:NA	<b>3)Pratik Kumar</b>
Filing Date	:NA	
(87) 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 RECONFIGURABLE AND SCALABLE MULTI-CORE ANALOG COMPUTING CHIP ARCHITECTURE AND A SYSTEM THEREOF ABSTRACT Present disclosure discloses a multi-core reconfigurable analog computing chip architecture and a system thereof. The multi-core reconfigurable analog computing chip architecture comprises a plurality of Generalized Margin Propagation (GMP) based computational cores electrically connected with each other to form a multi-core reconfigurable analog computing chip. Each of the plurality of GMP-based computational cores comprises an interconnected matrix of computational tiles. Each computational tile comprises of a Shape-based Analog Compute (S-AC) unit electrically connected to an associated S-AC based Digital to Analog Converter (DAC). Each row in the interconnected matrix of computational tiles is electrically 15 connectable to an individual input current source or a common input current source, and each column in the interconnected matrix of computational tiles is electrically connectable to an associated output transistor unit to implement GMP mapped mathematical operation. Fig. 1a

No. of Pages : 42 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054592 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHODS AND WIRELESS NETWORK FOR MANAGING PAGING OPERATION

(51) International classification	:H04W0068000000, H04W0004060000, H04W0072000000, H04L0012180000, H04W0068020000	(71) <b>Name of Applicant :</b> <b>1)SAMSUNG ELECTRONICS CO., LTD</b> Address of Applicant :129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Vinay Kumar Shrivastava</b>
(33) Name of priority country	:NA	<b>2)Sriganesh Rajendran</b>
(86) International Application No	:NA	<b>3)Varini Gupta</b>
Filing Date	:NA	<b>4)Sangkyu Baek</b>
(87) 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 METHODS AND WIRELESS NETWORK FOR MANAGING PAGING OPERATION Embodiments herein disclose methods for managing a paging operation in a wireless network (1000) by a UE (100). The method includes receiving a paging message from a network device (200), where the UE (100) is in a Radio Resource Control (RRC) inactive state. Further, the method includes determining whether the UE (100) has received at least one of a core network (CN) paging and a group paging in the paging message. Further, the method includes sending at least one of a UE identity, an access type and a Temporary Mobile Group Identity (TMGI) to an upper layer upon determining that the UE (100) simultaneously receives the CN paging and the group paging in the paging message. Further, the method includes transiting the UE (100) into a Radio Resource Control (RRC) idle state from the RRC inactive state. FIG. 12

No. of Pages : 75 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141054624 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A CONTROL UNIT AND A METHOD FOR DIAGNOSING HEALTH OF FUEL PUMP OF VEHICLE

(51) International classification	:F04B0049200000, F02M0037080000, G01F0001360000, F02C0009280000, G01R0031340000	(71) <b>Name of Applicant :</b> <b>1)TVS MOTOR COMPANY LIMITED</b> Address of Applicant :Chaitanya, No.12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Jyothi Kannan Madheswaran</b>
(33) Name of priority country	:NA	<b>2)Srikumar Aravindakrishnan</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 Control Unit and A Method for Diagnosing Health of Fuel Pump of Vehicle Present invention relates to control unit 100 for diagnosing health of fuel pump 50 of vehicle 10. The control unit 100 is configured to determine speed of motor 52 based on current drawn by motor 52 and determine fuel flow rate based on one or more parameters of motor 52. The control unit 100 is further configured to determine pressure in fuel line connecting fuel pump 50 and fuel injector 102 for predetermined time T, determine first fuel flow rate for predetermined time and determine second fuel flow rate after predetermined time. The control unit 100 diagnoses fuel pump as faulty when one of first fuel flow rate and second fuel flow rate is greater or lower than threshold range of fuel flow rate or diagnoses fuel pump as not faulty when one of first fuel flow rate and second fuel flow rate is within threshold range of fuel flow rate. Reference Figure 1

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244017010 A

(19) INDIA

(22) Date of filing of Application :25/03/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : CARRIER FOR A CIRCULAR COMB OF A COMBING MACHINE

(51) International classification	:D01G0019100000, D21F0001000000, D01G0015880000, D21F0007080000, D01G0015920000	(71) <b>Name of Applicant :</b> <b>1)Graf + Cie AG</b> Address of Applicant :Bildaustrasse 6, CH-8640, Rapperswil, Switzerland Switzerland
(31) Priority Document No	:70592/2021	(72) <b>Name of Inventor :</b>
(32) Priority Date	:23/11/2021	<b>1)DRATVA, Christian</b>
(33) Name of priority country	:Switzerland	<b>2)BURKHARD, Tobias</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 carrier (25) for a circular comb (7) of a combing machine, having a clothing contact surface (26) for accommodating a comb clothing (13), and having at least one support surface (27) opposite the clothing contact surface (26) for supporting the carrier (25) on a circular comb shaft (8), wherein the support surface (27) is designed as at least one spring rib pair (28; 29). A wear protection element (30; 31) is assigned to the support surface (27). (Figure 7)

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244037024 A

(19) INDIA

(22) Date of filing of Application :28/06/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : MONITORING DEVICE AND MONITORING METHOD

(51) International classification	:G07G0001000000, H04N0007180000, H04N0005232000, G06K0009000000, H04N0001000000	(71)Name of Applicant : <b>1)TOSHIBA TEC KABUSHIKI KAISHA</b> Address of Applicant :1-11-1, Osaki, Shinagawa-ku, Tokyo 141-8562, Japan Japan
(31) Priority Document No	:2021-191259	(72)Name of Inventor :
(32) Priority Date	:25/11/2021	<b>1)Yuishi Takeno</b>
(33) Name of priority country	:Japan	<b>2)Keita Yamazaki</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 monitoring device for monitoring a customer operating a checkout terminal in a store, includes a network interface configured to communicate with the checkout terminal configured to perform checkout processing and an attendant terminal, a camera interface through which an image captured by a camera is received, the camera being installed so as to image the customer operating the checkout terminal, and a processor configured to, upon receipt of a first command indicating that the checkout processing has been started from the checkout terminal, begin monitoring of the image captured by the camera, upon detection of presence of the customer in the image, acquire feature information representing features of the customer from the image, and upon detection of absence of the customer in the image after the feature information is acquired, control the network interface to output to the attendant terminal an alert signal with the acquired feature information. Fig. 1

No. of Pages : 55 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244059522 A

(19) INDIA

(22) Date of filing of Application :18/10/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : DETECTION OF DEGRADATION OR AN ANOMALOUS STATE ACROSS HETEROGENOUS INTERNET-OF-THINGS DEVICES USING SYNTHESIZED SENSORS

(51) International classification	:G06F0003041000, G06F0003010000, G06F0016230000, G05B0023020000, G06F0009451000	(71) <b>Name of Applicant :</b> <b>1)INTEL CORPORATION</b> Address of Applicant :2200 Mission College Boulevard, Santa Clara, California 95054, USA U.S.A.
(31) Priority Document No	:17/534,875	(72) <b>Name of Inventor :</b>
(32) Priority Date	:24/11/2021	<b>1)HOANG TRAN VAN</b>
(33) Name of priority country	:U.S.A.	<b>2)NEETHU ELIZABETH SIMON</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 :

Systems, apparatuses, and methods include technology that generates synthesized sensors that synthesize operations of a first plurality of sensors using independent variables, such as sensors, as first inputs, where the first plurality of sensors is to sense conditions of operations of a system as the system executes a process based on a first input, and further where the conditions are stored as a first output. The technology generates a second output based on the synthesized sensors and the first input and detects whether one or more of a degradation and an anomalous state exists based on a comparison of the first output to the second output.

No. of Pages : 58 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244063395 A

(19) INDIA

(22) Date of filing of Application :07/11/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : HIGH-SPEED PROCESS FOR PRODUCING ACRYLIC FIBERS AND RELATIVE APPARATUS

(51) International classification	:D01D0005060000, D01F0006180000, D01F0009220000, D01F0006380000,	(71) <b>Name of Applicant :</b> <b>1)MONTEFIBRE MAE TECHNOLOGIES S.r.l.</b> Address of Applicant :Via Lorenzo Mascheroni, 27, I-20145 Milano, Italy Italy
(31) Priority Document No	D01D0001020000	(72) <b>Name of Inventor :</b>
(32) Priority Date	:102021000029576	<b>1)FRANCALANCI, Franco</b>
(33) Name of priority country	:23/11/2021	<b>2)GOZZO, Pierluigi</b>
(86) International Application No	:Italy	<b>3)VIDIGAL, Ana Paula</b>
Filing Date	:PCT//	<b>4)ROVELLINI, Marco</b>
(87) International Publication No	:01/01/1900	<b>5)GUARDIANI, Valter</b>
(61) Patent of Addition to Application Number	: NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A process is described for the production of acrylic fibers, in particular a spinning process for obtaining precursor fibers of carbon fiber by the wet spinning of a polymer solution in an organic solvent and the relative apparatus.

No. of Pages : 22 No. of Claims : 12



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244066195 A

(19) INDIA

(22) Date of filing of Application :18/11/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : ANNULAR CLAMP

(51) International classification :A61B0017880000,  
A61B0017700000,  
B23C0005100000,  
C11D0017000000,  
B02C0017180000  
(31) Priority Document No :202111385466.4  
(32) Priority Date :22/11/2021  
(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 :  
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(72)Name of Inventor :  
**1)HAO, Degang**  
**2)TONG, Kevin**

(57) Abstract :

An annular clamp is described which comprises a split ring with a first end and a second end, wherein the first end and the second end are adapted to receive a bolt with an outer thread for drawing first end and second end towards one another to tighten the annular clamp by reducing an inner diameter of the split ring, wherein the first end comprises a first loop, wherein the first loop accommodates a first trunnion bar, wherein the second end comprises a second loop, wherein the second loop accommodates a second trunnion bar, wherein the first trunnion bar comprises a first through hole with an inner thread to cooperate with the outer thread of the bolt such that the bolt can be screwed through the first trunnion bar, wherein the second trunnion bar comprises an abutment surface for the bolt, wherein the first trunnion bar comprises a mostly circular edge section, at which the through hole transitions into an outer surface of the first trunnion bar, wherein the edge section comprises at least two deformations that protrude towards a middle axis of the first through hole such that the deformations engage with the outer thread of the bolt to increase the friction between the bolt and the first trunnion bar. [FIGURE 2]

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244066738 A

(19) INDIA

(22) Date of filing of Application :21/11/2022

(43) Publication Date : 26/05/2023

(54) Title of the invention : ASSEMBLY FOR A POWER MODULE, POWER MODULE AND METHOD FOR PRODUCING AN ASSEMBLY FOR A POWER MODULE

(51) International classification	:H01L0023000000, H05K0001180000, H01L0023367000, H01M0008020600, H01L0033620000	(71)Name of Applicant : <b>1)HITACHI ENERGY SWITZERLAND AG</b> Address of Applicant :Bruggerstrasse 72, 5400 Baden, Switzerland Switzerland
(31) Priority Document No	:21210204.0	(72)Name of Inventor : <b>1)Gontran Paques</b>
(32) Priority Date	:24/11/2021	<b>2)Andreas Roesch</b>
(33) Name of priority country	:EPO	<b>3)Roman Ehrbar</b>
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 :

According to an embodiment of the assembly (10) for a power module, said assembly comprises an electrically isolating base body (1), a first (2) and a second (3) electrically conductive structure both embedded in the base body. The first and the second electrically conductive structure are configured to be on different electrical potentials during normal operation of the power module. The first and the second electrically conductive structure each comprise at least one first region (21, 31) which is not covered by the base body. At least one first region of at least one of the first and the second electrically conductive structure is covered by an electrically isolating material (5). [FIGURE 5]

No. of Pages : 34 No. of Claims : 14

(54) Title of the invention : TOOTH-WHITENERS COMPRISING MODIFIED NIOBIUM COMPOUNDS ASSOCIATED WITH CATIONS, METHOD AND USES

(51) International classification	:A61Q0011000000, A61Q0019020000, A61K0038000000, C07K0014750000, C07K0007080000	(71)Name of Applicant : <b>1)UNIVERSIDADE FEDERAL DE MINAS GERAIS</b> Address of Applicant :Av. Antônio Carlos, 6627 - Unidade Administrativa II - 2º andar- sala, 2011, Belo Horizonte, MG 31270-901, Brazil, Brazil
(31) Priority Document No	:BR 1320210238053	<b>2)ODONTO TECH PESQUISA E INOVAÇÃO LTDA.</b>
(32) Priority Date	:25/11/2021	(72)Name of Inventor :
(33) Name of priority country	:Brazil	<b>1)ALVES DE OLIVEIRA, Luiz Carlos</b>
(86) International Application No	:PCT//	<b>2)BELCHIOR, Jadson Claudio</b>
Filing Date	:01/01/1900	<b>3)CHAGAS, Poliane</b>
(87) International Publication No	: NA	<b>4)DE CASTRO OLIVEIRA, Cinthia</b>
(61) Patent of Addition to Application Number	:NA	<b>5)MORGAN DOS SANTOS ALVES, Luis Fernando</b>
Filing Date	:NA	<b>6)CANESCHI, Camila De Sousa</b>
(62) Divisional to Application Number	:NA	<b>7)FARIA, Francine Benetti</b>
Filing Date	:NA	

## (57) Abstract :

The present technology relates to whitening toothpaste and gels comprising modified niobium compounds associated with cations, method of obtaining and use thereof. The niobium compounds give the product the ability to act in tooth whitening with visible radiation, the radiation can be natural or artificial, without the need to use free peroxides. The mechanisms of whitening action come from electronic excitation, from the incidence of radiation on niobium compounds with cations, which may be due to the action of the functional chemical groups present in the nanoparticles, even in the absence of light. In addition, when dispersed in a toothpaste, the compounds can act as chemical whiteners, in addition to leading to a decrease in caries bacteria due to the oxidant functional groups in the nanoparticles. Figure 1

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244067226 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : ELECTRICALLY CONDUCTIVE CONTACT ELEMENT FOR A CONNECTOR

(51) International classification	:B32B0015010000, H01M0008020600, H01R0004020000, A24F0040700000, H01R0013030000	(71)Name of Applicant : <b>1)TYCO ELECTRONICS FRANCE SAS</b> Address of Applicant :1 Rue Ampère, F-95300 Pontoise, France France <b>2)TE Connectivity Services GmbH</b>
(31) Priority Document No	:21306644.2	(72)Name of Inventor :
(32) Priority Date	:25/11/2021	<b>1)ROUILLARD, Xavier</b>
(33) Name of priority country	:EPO	<b>2)DAHER, Joseph</b>
(86) International Application No	:PCT//	<b>3)M D, Sundarshan</b>
Filing Date	:01/01/1900	
(87) 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 an electrically conductive contact element (10, 30, 50) for an electrical connector, having a contact surface (24) configured to be brought into contact with a surface of a connecting part of a mating electrical connector. Said electrically conductive contact element (10, 30, 50) comprises a body (12, 52) and a layer (22) of an electrically conductive material (M) provided on a first face (14) of said body (12, 52), wherein the contact surface (24) is formed by a surface (24) of said layer (22) facing away from the body (12, 52). The first face (14) of the body (12, 52) comprises at least one depression (16) forming a reservoir (20) filled with the electrically conductive material (M). Figure 1

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244067328 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : FLUIDIZED BED REACTOR AND METHOD FOR OPERATING THE FLUIDIZED BED REACTOR

(51) International classification	:B01J0008180000, G01N0015060000, B01J0008000000, C10J0003460000, G01N0021930000	(71)Name of Applicant : <b>1)DOOSAN LENTJES GMBH</b> Address of Applicant :Daniel-Goldbach-Strasse 19, 40880, Ratingen, Germany Germany
(31) Priority Document No	:EP21210512.6	(72)Name of Inventor :
(32) Priority Date	:25/11/2021	<b>1)BROSCH, Björn</b>
(33) Name of priority country	:EPO	<b>2)SCHMITT, Ing. Sebastian</b>
(86) International Application No	:NA	<b>3)GANDHI, Bhavik</b>
Filing Date	:NA	<b>4)GORAL, Damian</b>
(87) International Publication No	: NA	<b>5)LEUSCHKE, Frank</b>
(61) Patent of Addition to Application Number	:NA	<b>6)NARIN, Oguzhan</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a fluidized bed reactor (1) comprising - a reaction chamber (2) for particulate matter, the reaction chamber (2) having at least one particulate matter inlet (3) for the particulate matter and at least one primary particulate matter outlet (4) for the particulate matter, and - a fluidizing grate (5) having multiple openings (6) for an operating fluid to fluidize particulate matter above the fluidizing grate (5). Figure 1

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202244067353 A

(19) INDIA

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

(43) Publication Date : 26/05/2023

(54) Title of the invention : DEVELOPING ROLLER, PROCESS CARTRIDGE, AND ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS

(51) International classification	:G03G0015080000, G03G0015200000, A61F0013490000, H01L0027120000, B60C0009200000	(71)Name of Applicant : <b>1)CANON KABUSHIKI KAISHA</b> Address of Applicant :30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146-8501, Japan Japan
(31) Priority Document No	:2021-191471	(72)Name of Inventor : <b>1)Toru Ishii</b>
(32) Priority Date	:25/11/2021	<b>2)Kazuaki Nagaoka</b>
(33) Name of priority country	:Japan	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) 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 is a developing roller comprising an electroconductive substrate and an electroconductive elastic layer constituted by a single layer on an outer periphery of the substrate. The elastic layer contains a diene-based rubber, has a thickness of 0.30 mm or more, and the elastic layer has a crown shape in which an outer diameter of a center portion in a longitudinal direction along an axis of the substrate is larger than an outer diameter of each of both end portions in the longitudinal direction. Elastic moduli E11, E12 and E13 in a first region of the elastic layer in cross-sections at positions P1, P2 and P3 of the elastic layer are each 500 MPa or more. [Figure 3]

No. of Pages : 60 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053613 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : METHOD OF MANUFACTURING GATE VALVE WITH SCREWED TYPE BYPASS VALVE FOR HIGH PRESSURE AND TEMPERATURE APPLICATIONS

(51) International classification	:F01K0013020000, F16K0043000000, G01K0007240000, G01M0003320000, G01M0003000000	(71)Name of Applicant : <b>1)BHARAT HEAVY ELECTRICALS LIMITED</b> Address of Applicant :Regional offices: REGIONAL OPERATIONS DIVISION (ROD), PLOT NO: 19/1, DJ Block, 3rd Floor, Karunamoyee, Salt Lake, Kolkata-700091, West Bengal, Registered Office: BHEL HOUSE, SIRI FORT, NEW DELHI-110049, INDIA. An Indian Company West Bengal India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Bhaskaran Nair Prajeesh</b>
(33) Name of priority country	:NA	<b>2)Sivaraj Sathees Kumar</b>
(86) International Application No	:NA	<b>3)Susil Kumar Marwyn Joshua</b>
Filing Date	:NA	<b>4)Sivasankaran Madhuram</b>
(87) International Publication No	: NA	<b>5)Veerasley Senthamizhan</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Murugasamy Eswaran</b>
Filing Date	:NA	<b>7)Mani Balamurugan</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT METHOD OF MANUFACTURING GATE VALVE WITH SCREWED TYPE BYPASS VALVE FOR HIGH PRESSURE AND TEMPERATURE APPLICATIONS This invention relates to a normally, the gate valves used in various lines in steam generator and steam turbine like main steam line, drip pump suction line, recirculation line, discharge line, super heater outlet line and main steam ERV isolation valve for high pressure and high temperature applications. The drawback with this valve is, the bypass valve having a frequent backseat leakage problem particularly which exists during the testing of valve assembly at hydro testing, leads to more rework and rejection in many work centers. The new method introduces, a screwed type bypass valve instead of welded type bypass valve. A screwed type bypass valve having a leak free arrangements and modular design which is newly designed and developed by in-house. Hence, hydro testing failures and welding repairs are eliminated and the drawbacks said in the background are completely eliminated. Hence, this method, aids in faster assembly and easier assembly thus, reduces the cycle time. The rejection rates were at higher rate in case of the body-yoke welding design, which will now be considerably reduced. [[To be published with Fig. 4 and Fig. 5]

No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053760 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A POULTRY-HOUSE-ENVIRONMENT MONITORING AND CONTROL DEVICE AND METHOD THEREFOR

(51) International classification	:G05D0023190000, H01M0008040890, F24F0011890000, F04B0049080000, F24F0110200000	(71)Name of Applicant : <b>1)UTTAR BANGA KRISHI VISWAVIDYALAYA</b> Address of Applicant :Kalimpong, West Bengal- 734301, India West Bengal India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Subrata Manna</b>
(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 :

The present disclosure provides a poultry-house-environment monitoring and control device and associated method. The device comprising a plurality of sensors for detecting the environmental parameters in the poultry. The device also has a lighting unit (100), a heating module (200), an air conditioning unit (500) and a microprocessor (600) configured to receive signals from the plurality of sensors and on the basis of sensor value, transmitting on or off signal to the heating module (200) for maintaining a predefined temperature within the poultry and transmitting on or off signal to lighting unit (100) for providing light in the poultry for a predefined time; and transmitting on or off signal to the air conditioning unit (500) for a predefined schedule for keeping the poultry ventilated. The present device monitors and controls light, heat and exhaust fan to maintain all environmental parameters as per the scientific standard. Fig.2

No. of Pages : 21 No. of Claims : 13



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053797 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : POWER SAVER

(51) International classification :H04W0052020000,  
G03G0015200000,  
G06F0001320300,  
H04W0008000000,  
E21B0021100000

(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

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(72)Name of Inventor :  
**1)ARSHAD MD.ANSAR BARBHUIYA**

(57) Abstract :

'POWER SAVER' Abstract: Anelectronic device-A union of different electronic components -It is to be set in electric appliances in the room — It counts people in the room - It functions with the presence of people inside the room and exits of last people -It deals with the power of an appliances- (a) turn and (b) -thus, it saves power - It perfects its service nicely and economically -It can be installed easily-It causes no harm of environment-and it will save us from the electric scarcity that is proceeding towards us.

No. of Pages : 5 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131053833 A

(19) INDIA

(22) Date of filing of Application :23/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : A SYSTEM FOR ELECTROPOLISHING OF DYNAMICALLY TUNED GYROSCOPE

(51) International classification	:C25F0007000000, C25F0003160000, C25F0003260000, H01L0021768000, B23K0026400000	(71)Name of Applicant : <b>1)NDIAN INSTITUTE OF TECHNOLOGY GUWAHATI</b> Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, GUWAHATI, ASSAM 781039, INDIA Assam India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)ABHINAV KUMAR</b>
(33) Name of priority country	:NA	<b>2)MANAS DAS</b>
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 FOR ELECTROPOLISHING OF DYNAMICALLY TUNED GYROSCOPE A system for electropolishing of dynamically tuned gyroscope, comprising: a gyroscope (2) fabricated with thin flexural members (2a, 2b) forming a cruciform shape, each flexural member spanning a diameter of said gyroscope, a tool (1), with its operative distal end shape, being a negative replica of said cruciform shape, said tool (1) having an operatively downward and distally protruding part (1c) corresponding to receive operative distal end portions of said cruciform shape flexural members of said gyroscope; a gyroscope holder (6) to hold said gyroscope (2) such that said gyroscope's (2) thin flexural members (2a, 2b) are uniformly spaced apart distance from said tool (1); and said tool (1), along with said gyroscope (2), being configured to be placed in a glass beaker (7) filled with an electrolyte suited for electropolishing of said gyroscope (2). [[FIGURE 1]]

No. of Pages : 32 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131054347 A

(19) INDIA

(22) Date of filing of Application :24/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : INERTIAL SENSOR BASED HAND GESTURE RECOGNITION SYSTEM USING SVM AND ANDROID INTERFACE

(51) International classification :G06F0003010000,  
G06K0009000000,  
G09B0021000000,  
G10L0021060000,  
G06F0001160000

(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

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(72)Name of Inventor :  
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**2)RITAM DE**  
**3)RUPKATHA BASU**  
**4)SUTAPA RAY ADHIKARY**  
**5)MALAY GANGOPADHYAYA**

(57) Abstract :

Sign Language is the primary way of communication for speech impaired people in world.They are able to express themselves by using those sign gestures. Most sign gestures have an associated word or a feeling with them. Unfortunately, the number of people who can interpret these sign languages are very few. This makes it very difficult for them to express even their basic needs to common people. This invention is aimed to produce an economic, and wearable electronic sensor based system which can detect and recognize human hand gestures, and can convert the recognized gestures into the corresponding spoken words.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202131054402 A

(19) INDIA

(22) Date of filing of Application :25/11/2021

(43) Publication Date : 26/05/2023

(54) Title of the invention : SURFACE INSPECTION SYSTEM

(51) International classification	:G01N0021950000, G01N0021880000, G01N0021954000, G01N0021930000, G01N0021210000	(71) <b>Name of Applicant :</b> <b>1)TATA STEEL LIMITED</b> Address of Applicant :Jamshedpur, Jharkhand 831001, India Jharkhand India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)Jitendra Kumar Mathur</b>
(33) Name of priority country	:NA	<b>2)Anoop Kumar Trivedi</b>
(86) International Application No	:NA	<b>3)Atul Agrawal</b>
Filing Date	:NA	
(87) 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 surface inspection system (100) configured to inspect at least one surface (101a, 101b) of a workpiece (103) is provided. The surface inspection system (100) comprises at least one frame assembly (102, 104) having a fixed frame structure (106, 108) and a movable frame structure (110, 112). The movable frame structure (110, 112) is configured to be moved between a working position (W) and a parked position (P) with respect to the fixed frame structure (106, 108). The surface inspection system (100) also comprises at least one illuminating device (120, 122), at least one camera (130, 132, 134, 136), and an image processing unit (140). The at least one camera (130, 132, 134, 136) is configured to acquire an image for detecting particles, defects, or other surface characteristics in or on the at least one surface (101a, 101b) of the workpiece (103). Figure 1.

No. of Pages : 29 No. of Claims : 16

**WEEKLY ISSUED FER (DELHI)**

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15	DELHI	202217016740	16/05/2023 00:00:00	Anand & Anand Advocates B- 41,Nizamuddin East New Delhi 110013, India Phone No: 0091-11- 24355076, 91-120-4059300 Fax No: 0091-11-24354243, 91-120- 4243056-58 E-mail: email@anandandanand.com, archana@anandandanand.com; Mobile No: +91 9717990240	archana@anandandanand.com
16	DELHI	39/DEL/2015	17/05/2023 00:00:00	SANJAY RAIZADA G 262 SARITA VIHAR NEW DELHI	shaleen.raizada@sanshadow.com,delhi-patent@nic.in
17	DELHI	201911034689	17/05/2023 00:00:00	Scintillation Research and Analytics Services Pvt Ltd, Office 31, 10th floor, TDI Business Center, TDI City-1, Sector 117, Near VR Punjab Mall, Moahli - 160055, Punjab, India	bikramjit.singh@sraas.com,info@sraas.com
18	DELHI	202117036004	17/05/2023 00:00:00	RAHUL CHAUDHRY & PARTNERS RCY House, Plot No. B-28, Sector-32, Institutional Area, Gurgaon-122 001 (Haryana) India & RCY House, C-235, Defence Colony, New Delhi- 110024, India.	patents@rahulchaudhry.com
19	DELHI	202117037355	18/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, B6/10, Safdarjung Enclave New Delhi 110029 India	IPRDEL@LAKSHMISRI.COM,iprdel@lakshmisri.com
20	DELHI	202117040370	18/05/2023 00:00:00	REMFREY & SAGAR Attorneys- at-Law Remfry House Millennium Plaza Sector 27, Gurgaon 122 009, India.	mahua.ray@remfry.com,remfry-sagar@remfry.com

21	DELHI	202118011359	18/05/2023 00:00:00	Anand & Anand Advocates B-41, Nizamuddin East New Delhi 110013, India Phone No: 0091-11-24355076, 91-120-4059300 Fax No: 0091-11-24354243, 91-120-4243056-58 E-mail: email@anandandanand.com, archana@anandandanand.com; Mobile No: +91 9717990240	archana@anandandanand.com, email@anandandanand.com
22	DELHI	202117038886	18/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India	ipo@knspartners.com
23	DELHI	201911004146	18/05/2023 00:00:00	ENNOBLE IP, B-17, FIRST FLOOR, SECTOR 6, NOIDA-201301 (UP)	ipecc@ennobleip.com
24	DELHI	201911008295	18/05/2023 00:00:00	IP GLOBAL SERVICES 8/3, Ground Floor, Rajinder Nagar, NEW DELHI-110060, INDIA.	docketing@ipattorneys.in, ipattorneys@vsnl.net
25	DELHI	201911015541	18/05/2023 00:00:00	ASHISH SHARMA, IP NATION; D-177, GF, Shyam Park Ext., Sahibabad-201005 (Ghaziabad), U.P.	ashish.iprindia@hotmail.com
26	DELHI	202117009695	18/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India Telephone No. 911244708700 Mobile No. +91 8130055293 Fax No. +911244708760 E-mail ID ipo@knspartners.com	ipo@knspartners.com
27	DELHI	202017032552	18/05/2023 00:00:00	B6/10, Safdarjung Enclave, New Delhi 110029 India	iprdel@lakshmisri.com
28	DELHI	202017036642	18/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, B6/10, Safdarjung Enclave New Delhi 110029 India	IPRDEL@LAKSHMISRI.COM
29	DELHI	202217006025	18/05/2023 00:00:00	Anand & Anand Advocates B-41, Nizamuddin East New Delhi 110013, India Phone No: 0091-11-24355076, 91-120-4059300 Fax No: 0091-11-24354243, 91-120-4243056-58 E-mail: email@anandandanand.com, archana@anandandanand.com; Mobile No: +91 9717990240	archana@anandandanand.com
30	DELHI	202217066502	18/05/2023 00:00:00	ZeusIP Advocates LLP C-4, LGF, Jangpura Extension, New Delhi-110014 Telephone No. +91-120-4537000; 4360644 Mobile No. +91-7042934488 Fax No. +91-120-4254887 E-mail: <a href="mailto:info@zeusip.com">info@zeusip.com</a>	info@zeusip.com

31	DELHI	202217020015	19/05/2023 00:00:00	Sagacious Research Pvt. Ltd. Plot No: B7/B8, Sector 32, Echelon Institutional Area Gurgaon, Haryana, India	vivek.singh@sagaciousresearch.com
32	DELHI	202217002994	19/05/2023 00:00:00	Groser & Groser D-1/5, DLF Qutab Enclave, Phase-1, Gurgaon, INDIA Telephone 0124-4660500 Fax 0124-4759195 Mobile 9811282273 Email kevin@groserandgroser.com	kevin@groserandgroser.com
33	DELHI	202311000195	19/05/2023 00:00:00	LEXORBIS 709/710, Tolstoy House 15-17, Tolstoy Marg, New Delhi 110 001	mail@lexorbis.com,manisha@lexorbis.com
34	DELHI	202311007690	19/05/2023 00:00:00	Tanu Singh c/o Intellect Vidhya Solutions Law LLP, F606, Royal Citadel, Manipal County Road, Singasandra, Bangalore 560068.Karnataka, India.	tanu@intellectvidhya.com
35	DELHI	201911045021	19/05/2023 00:00:00	ER. AJAYTA AGARWAL, HEAD, INNOVATION PROTECTION UNIT (IPU), CSIR NISCAIR BUILDING, 3RD FLOOR, 14 SATSANG VIHAR MARG, NEW DELHI-110067	head.ipu@niscair.res.in
36	DELHI	201917007569	19/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India.	IPO@KNSPARTNERS.COM,ipo@knspartners.com
37	DELHI	202118052584	19/05/2023 00:00:00	LEXORBIS 709/710, Tolstoy House 15-17, Tolstoy Marg, New Delhi 110 001	mail@lexorbis.com
38	DELHI	202118052585	19/05/2023 00:00:00	LEXORBIS 709/710, Tolstoy House 15-17, Tolstoy Marg, New Delhi 110 001	mail@lexorbis.com
39	DELHI	202117037749	19/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India.	ipo@knspartners.com
40	DELHI	202117035767	19/05/2023 00:00:00	Anand & Anand Advocates B-41,Nizamuddin East New Delhi 110013, India	archana@anandandanand.com,email@anandandanand.com
41	DELHI	202017024664	19/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India. Telephone No. +911244708700 Mobile No. +91 8130055293 Fax No. +911244708760 E-mail ID ipo@knspartners.com	ipo@knspartners.com



42	DELHI	202117042724	19/05/2023 00:00:00	Anand & Anand Advocates B-41, Nizamuddin East New Delhi 110013, India	archana@anandandanand.com, email@anandandanand.com
43	DELHI	202117042761	19/05/2023 00:00:00	Name Amit Aswal Mobile No. 9773654477 Name anovIP 161-B/4, 6th Floor, Gulmohar House, Yusuf Sarai Community Center, Gautam Nagar, Green Park, New Delhi 110049, India Postal Address	info@anovip.com
44	DELHI	202117048993	19/05/2023 00:00:00	S&A Law Offices S&A Tower, 3rd Floor, Plot No. 5,6,7, Udyog Vihar, Phase IV, Gurugram (NCR) Haryana 122015.	ipr@snalawoffices.com
45	DELHI	202117049927	19/05/2023 00:00:00	LEXORBIS 709/710, Tolstoy House 15-17, Tolstoy Marg, New Delhi 110 001	mail@lexorbis.com
46	DELHI	202117058351	19/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon 122002, National Capital Region, India	ipo@knspartners.com

**WEEKLY ISSUED FER (MUMBAI)**

SNO	LOCATION	APPLICATION NUMBER	FER DATE	ADDRESS FOR SERVICE	EMAIL
1	MUMBAI	202021022269	15/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2nd floor, B&C Wing, Cnergy IT Park Appa Saheb Marathe Marg Prabhadevi, Mumbai Maharashtra 400025 India	iprdel@lakshmisri.com,malathi.l@lakshmisri.com
2	MUMBAI	202121002782	15/05/2023 00:00:00	Gopakumar Nair Associates ~Shivmangal™, 3rd Floor, Near Big Bazaar, Akurli Road, Kandivali (East), Mumbai-400101, Maharashtra, India.	gopanair@gnaipr.net
3	MUMBAI	202121053374	15/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys 4121/B, 6th Cross, 19A Main, HAL II Stage (Extension), Bangalore 560 038, Karnataka, INDIA.	ipo@knspartners.com
4	MUMBAI	202121056297	15/05/2023 00:00:00	SONI AND SONI II flr, Sanghmitra, Opp Keshav Baugh AsoPalov Lane, Satellite-380015, Ahmedabad,Gujarat,India	ATTORNEY.IPR@GMAIL.COM
5	MUMBAI	202221005260	15/05/2023 00:00:00	Stratjuris Law Partners, Office 301, Westport, Pan card club road, Baner, Pune-411045, Maharashtra, India	ip@stratjuris.com
6	MUMBAI	202221054545	16/05/2023 00:00:00	Rahul Ravindra Shah B-504, Neelkanth Regent Regalia, P-2, Ram Narayan Narkar Marg, Ghatkopar (East), Mumbai - 400077 Maharashtra, India.	gajali@gmail.com
7	MUMBAI	202327004137	16/05/2023 00:00:00	R.K.Dewan & Co. Podar Chambers, S A. Brelvi Road, Fort, Mumbai 400001, Maharashtra, India	dewan@rkdewanmail.com
8	MUMBAI	202321016730	16/05/2023 00:00:00	IPFLAIR CONSULTING PVT. LTD, INDIQUBE ORION, 24TH MAIN RD, GARDEN LAYOUT, SECTOR 2, HSR LAYOUT, BANGALORE - 560102, KARNATAKA	filings@ipflair.com
9	MUMBAI	202127055325	16/05/2023 00:00:00	PLOT No. 12, THANE BELAPUR ROAD, TURBHE, NAVI MUMBAI- 400705, MAHARASHTRA, INDIA Mobile no.: +91 7506335637	indian.filing@basf.com
10	MUMBAI	202121008713	16/05/2023 00:00:00	K&S PARTNERS Intellectual Property Attorneys C-915, Kailas Business Park, Hiranandani Link Road, Parksite, Vikhroli (West), Mumbai-400079, India Telephone No. + 91 2249149700 Mobile No. +91 8130055293 Fax No. + 91 2249149701 E-mail ID <a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a>	ipo@knspartners.com

11	MUMBAI	202027003290	16/05/2023 00:00:00	R.K.DEWAN & CO. PODAR CHAMBERS, S A. BRELVI ROAD, FORT, MUMBAI 400001 MAHARASHTRA INDIA	dewan@rkdewanmail.com
12	MUMBAI	202027028421	16/05/2023 00:00:00	R.K.Dewan & Co. Podar Chambers, S A. Brelvi Road, Fort, Mumbai 400001	dewan@rkdewanmail.com
13	MUMBAI	201927024596	16/05/2023 00:00:00	R.K.Dewan & Co. 5th Floor Podar Chambers, S A. Brelvi Road, Fort, Mumbai 400001 Maharashtra India.	dewan@rkdewanmail.com
14	MUMBAI	201821010552	16/05/2023 00:00:00	R.K.Dewan & Co. Podar Chambers, S A. Brelvi Road, Fort, Mumbai 400001 Maharashtra India	dewan@rkdewanmail.com,mailroom@rkdewanmail.com
15	MUMBAI	201921012047	16/05/2023 00:00:00	KHURANA & KHURANA, Advocates and IP Attorneys E-13, UPSIDC, Site-IV, Behind Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India.	info@khuranaandkhurana.com
16	MUMBAI	201921008074	17/05/2023 00:00:00	DR. BOBBA VENKATA SIVAKUMAR, MANAGING PARTNER & CEO, ZENVISION PHARMA LLP, PLOT NO.A-310, MIDC, TTC INDUSTRIAL AREA, MAHAPE, NAVI MUMBAI-400 709, MAHARASHTRA, INDIA.	dr.sivakumar@zenvisionpharma.com
17	MUMBAI	202121023274	17/05/2023 00:00:00	KRISHNA & SAURASTRI ASSOCIATES LLP 74/F, Venus, Worli Sea Face Mumbai 400 018, Maharashtra, India	info@krishnaandsaurastri.com
18	MUMBAI	202127035432	17/05/2023 00:00:00	CHADHA & CHADHA, Emaar Digital Greens, Tower B, 15th floor, Unit no. 9 and 10, Golf Course Extension Road, Sector - 61, Gurugram, Haryana 122011, India.	info@iprattorneys.com,ipo@knspartners.com
19	MUMBAI	202221010927	17/05/2023 00:00:00	KHURANA & KHURANA, Advocates and IP Attorneys E-13, UPSIDC, Site-IV, Behind Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India.	jioipr@zmail.ril.com,info@khuranaandkhurana.com
20	MUMBAI	202127000357	18/05/2023 00:00:00	PLOT No. 12, THANE BELAPUR ROAD, TURBHE, NAVI MUMBAI- 400705, MAHARASHTRA, INDIA	indian.filing@basf.com
21	MUMBAI	201921014974	18/05/2023 00:00:00	Sanjaykumar Patel 709-Shivalik Highstreet, Nr. Keshavbaug Party Plot SAtellite Ahmedabad-380015 Gujarat	sanjaykumar.ipr@gmail.com,sanjay@infinventip.com,patent@excelonip.com

22	MUMBAI	201921021479	18/05/2023 00:00:00	GLOBAL INTELLECTUAL PROPERTY SERVICES, JOHN DEERE INDIA PVT.LTD. TOWER-14, CYBERCITY, MAGARPATTA CITY,HADAPSAR,PUNE-411013	globalipservicesindia@johndeere.com
23	MUMBAI	201921021618	18/05/2023 00:00:00	MS LAW PARTNERS CG1-1804, Supertech Capetown, Sector 74, Noida 201301 (National Capital Region), India Mob: +91 98918 09068 Email: abhishek@mslaw.in	abhishek@mslaw.in,info@mslaw.in
24	MUMBAI	201821012793	19/05/2023 00:00:00	Adv. Swapnil Gawande R9 Harshanil, Eknath puram Near Yogeksham colony, Amaravati (Maharashtra)-444607	sjgawande@gmail.com,ashutosh@blic onsultancy.co.in,infobli100@gmail.co m
25	MUMBAI	201927027408	19/05/2023 00:00:00	Legasis Partners B-105, ICC Trade Towers, Senapati Bapat Road, Pune 411016, India	aditi.g@legasis.in
26	MUMBAI	202128058955	19/05/2023 00:00:00	Anand & Anand Advocates c/o 57 - 58, Rajgir Chambers, SBS Road Fort, Mumbai, Maharashtra 400023, India Telephone +91-22-22631488-89 Fax +91-22-22631487 E-mail: email@anandandanand.com, archana@anandandanand.com; Mobile No: +91 9717990240	archana@anandandanand.com,email@anan dandanand.com
27	MUMBAI	202128058956	19/05/2023 00:00:00	Anand & Anand Advocates c/o 57 - 58, Rajgir Chambers, SBS Road Fort, Mumbai, Maharashtra 400023, India Telephone +91-22-22631488-89 Fax +91-22-22631487 E-mail: email@anandandanand.com, archana@anandandanand.com; Mobile No: +91 9717990240	archana@anandandanand.com,email@anan dandanand.com
28	MUMBAI	202121022011	19/05/2023 00:00:00	Selvam and Selvam Old No.9, Valliammal Street, First Floor, Kilpauk, Chennai 600010 Tamilnadu, India	patents@selvams.com,nattuli@gmail.c om
29	MUMBAI	202221042259	19/05/2023 00:00:00	Innove Intellects A102 Sector 9, New Vijay Nagar, Ghaziabad	pooja@innoveintellects.com,pujakr@g mail.com
30	MUMBAI	202221050099	19/05/2023 00:00:00	BananaIP Counsels No.40,2nd Floor, 3rd Main Road, JC Industrial Estate, Kanakapura Road Bangalore-560111. Landmark Near Metro	patent@bananaip.com
31	MUMBAI	202221051567	19/05/2023 00:00:00	B/703, Pratik Corner, Plot No 49, Sector No 8/A, Airoli, Navi Mumbai- 400708, Maharashtra, India	dipakkokane2004@gmail.com
32	MUMBAI	202221053108	19/05/2023 00:00:00	IPFLAIR CONSULTING PVT. LTD, INDIQUBE ORION, 24TH MAIN RD, GARDEN LAYOUT, SECTOR 2, HSR LAYOUT, BANGALORE - 560102, KARNATAKA	filings@ipflair.com

33	MUMBAI	202321020565	19/05/2023 00:00:00	KHURANA & KHURANA, Advocates and IP Attorneys E-13, UPSIDC, Site-IV, Behind Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India.	info@khuranaandkhurana.com,tarun@ khuranaandkhurana.com
34	MUMBAI	202221062548	19/05/2023 00:00:00	Suneet Baliram Sabale C/o Brainiac IP Solutions, Office No.- 303, Third Floor, Navale Icon, Near Navale Bridge, Mumbai Pune Highway, Narhe, Pune, -411041 MH. India.	patent@brainiac.co.in
35	MUMBAI	202222057593	19/05/2023 00:00:00	Registered Office:-308, T.F., HERITAGE-PLAZA, OPP. GURUKUL TOWER, MEMNAGAR AHMEDABAD Ahmedabad GJ 380052 IN Correspondence Address: 7TH FLOOR, 706, AARYA EPOCH, NR. TATA MOTOR, OPP. PASSPORT SEVA KENDRA-2, NAVRANGPURA, AHMEDABAD 380009 GJ IN	info@ssbinfrastructure.in

## WEEKLY ISSUED FER (CHENNAI)

SNO	LOCATION	APPLICATION NUMBER	FER DATE	ADDRESS FOR SERVICE	EMAIL
1	CHENNAI	202141034568	15/05/2023 00:00:00	C/o. Foundation for Sandbox Startups, Village Road, Next to Airport, Gokul, Hubli - 580030. Karnataka, India	filings@ipface.org,vijay@sparcolife.com
2	CHENNAI	202141037943	15/05/2023 00:00:00	LEXORBIS 606-607, 6th Floor, Gamma Block, Sigma Soft Tech Park, No.7 Whitefield MainRoad, Hobli, Varthur, Bengaluru 560066, Karnataka Telephone No. 080 6191 5503 Mobile No. 9811161518 Fax No. 91 80 4324 5909	mail@lexorbis.com,manisha@lexorbis.com
3	CHENNAI	202141040749	15/05/2023 00:00:00	Dr.B.Deepa Sai Graha Flats, plot No.2, G1, 5/6, Ragava Iyer 1st Street, Purushottam Nagar, Chromepet, Chennai - 600044 9962729896 intellpat@gmail.com	intellpat@gmail.com
4	CHENNAI	202147040135	15/05/2023 00:00:00	M&M Advocates and Consultants Old No:16, New No :8, First Floor , Arcot Road, Porur , Chennai -600116 (Next to vasanth& Co), Tamil Nadu, India	leintelligensigroup@gmail.com
5	CHENNAI	202341014530	15/05/2023 00:00:00	Aumirah SKB, 2054, Sector-8, Faridabad, Haryana, IN 121006	patent@aumirah.com,rb@aumirah.com
6	CHENNAI	202347019748	15/05/2023 00:00:00	GEORGEKUTTY P.M, PMG ASSOCIATES, EF7-10, VASANTH NAGAR, PALARIVATTOM, COCHIN - 682025	INFO@PMGIP.COM
7	CHENNAI	202348014489	15/05/2023 00:00:00	De Penning & De Penning 120 Velachery Main Road Guindy, Chennai 600 032 Mobile No. 918939824355 Phone: 9144 - 42213444 Fax: 9144 - 42213402 E-mail: patent@depenning.com	patent@depenning.com
8	CHENNAI	202347024536	16/05/2023 00:00:00	De Penning & De Penning 120 Velachery Main Road, Guindy, Chennai 600 032 9144 - 42213444 8939824355 9144 - 42213402	patent@depenning.com
9	CHENNAI	202341021610	16/05/2023 00:00:00	Dr. Saranya Kuppusamy Ramanujan Fellow (Scientist D) Centre for Environmental Studies Department of Civil Engineering College of Engineering Guindy Anna University, Chennai - 600025, India	kuppusamy.saranya@gmail.com,saran.miles2go@gmail.com
10	CHENNAI	202247001690	16/05/2023 00:00:00	De Penning & De Penning 120 Velachery Main Road, Guindy, Chennai 600 032 9144 - 42213444 8939824355	patent@depenning.com
11	CHENNAI	201941048035	16/05/2023 00:00:00	Dr. S. Padmaja spiProPAT Intellectual Property Solutions, 4th Floor, Above Apollo Clinic, Suresh Square, Plot No 1-58/91/SS, Survey No 228 & 229/1, Madinaguda, Miyapur, Hyderabad - 500 049	patfiling@ipropat.com,padmaja@ipropat.com

12	CHENNAI	202041045963	16/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2, Wallace garden, 2nd Street, Chennai - 600 006 India	iprdel@lakshmisri.com,malathi.l@lakshmisri.com
13	CHENNAI	202047036646	17/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2, Wallace garden, 2nd Street, Chennai - 600 006 India	IPRDEL@LAKSHMISRI.COM
14	CHENNAI	201841042768	17/05/2023 00:00:00	Natco Pharma Limited Natco House, Road No.2 Banjara Hills, Hyderabad-500034 India.	patent@natcopharma.co.in
15	CHENNAI	202247075053	17/05/2023 00:00:00	REMFY & SAGAR Attorneys-at-Law First Floor, Block-B, Chaitanya Imperial Building, 610, Anna Salai, Teyanampetai, Chennai-600 018, India Tel/Fax: +91-44-42637392 Email: remfry-sagar@remfry.com patents@remfry.com	mahua.ray@remfry.com
16	CHENNAI	202147045017	17/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2, Wallace garden, 2nd Street, Chennai - 600 006 India	IPRDEL@LAKSHMISRI.COM
17	CHENNAI	202347004539	17/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2, Wallace garden, 2nd Street, Chennai - 600 006 India	IPRDEL@LAKSHMISRI.COM
18	CHENNAI	202341008846	17/05/2023 00:00:00	IPFLAIR CONSULTING PVT. LTD, INDIQUBE ORION, 24TH MAIN RD, GARDEN LAYOUT, SECTOR 2, HSR LAYOUT, BANGALORE - 560102, KARNATAKA	filings@ipflair.com
19	CHENNAI	202347009973	18/05/2023 00:00:00	GOSAKAN ARAVAMUDAN Unicita Consulting Private Limited No, 237/45, 5th Main Road, Chamarajpet,Bangalore-560018,Karnataka, India	gosakan@unicitaconsulting.com
20	CHENNAI	202147038944	18/05/2023 00:00:00	Anand & Anand Advocates Flat GA, AR Villa, New No. 31 (Old No. 13) 3rd main Road, Gandhi Nagar, Adyar,Chennai-60020 (India) Phone No: 91-44-43443777, 120-4059300 Fax No: 120-4243056, 91-44-43504232 E-mail: email@anandandanand.com / chennaianandandanand@yahoo.co.in/ archana@anandandanand.com Mobile No: +91 9717990240	archana@anandandanand.com,email@anandandanand.com
21	CHENNAI	202341002696	18/05/2023 00:00:00	Gnanlex Associates LLP 335, 3rd floor, V Mall, Asha Nagar, Near Saidham, Thakur Complex Kandivali East, Mumbai - 400101, Maharashtra, India..	ipr@gnanlex.net,gopanair@gnaipr.net
22	CHENNAI	202247064258	18/05/2023 00:00:00	Law Firm of Naren Thappeta #7, Sigma Soft Tech Park, 5th Floor, Beta Block Whitefield Main Road Opp to Varthur Kodi, Ramagondanahalli, Bangalore, Karnataka, 560066 India. Office: +91.80. 41529196/97 Mobile: 9686207117 ipoffice@iphorizons.com	ipo@iphorizons.com

23	CHENNAI	202241000877	18/05/2023 00:00:00	Omprakash S.N (IN/PA 1095) Oms Patent Services Pvt. Ltd. #2788, 16 Cross, 8B Main, Near Saraswathi Hospital, Banashankari II stage, Bengaluru 560070, Karnataka, India Mobile: +91- 94483 56142 Landline: 080-26761507, 26792089, Email: omprakash@omspatentservices.com	omprakash@omspatentservices.com,contact@omspatentservices.com
24	CHENNAI	201941019109	18/05/2023 00:00:00	Dr. S. Padmaja iProPAT Intellectual Property Solutions, 2nd Floor, Above Apollo Clinic, Suresh Square, Plot No 1-58/91/SS, Survey No 228 & 229/1, Madinaguda, Miyapur, Hyderabad - 500 049	patfiling@ipropat.com,padmaja@ipropat.com
25	CHENNAI	201841003518	18/05/2023 00:00:00	R.K.Dewan & Co. Dare House Annexe, 4th Floor, No 44, 2nd Line Beach, Chennai - 600001.	dewan@rkdewanmail.com
26	CHENNAI	202141003466	18/05/2023 00:00:00	Roots IP Services LLP, Flat No 102, H.No 12-44, Sri Lakshmi Nilayam, Lane No 1, Road No 1, P&T Colony, Boduppal, Hyderabad, Telangana State, PIN-500 092, INDIA. Mobile Ph No: 88618 46598, Email ID: vijay@rootsip.com	vijay@rootsip.com,avbreddy9@gmail.com
27	CHENNAI	202141033388	18/05/2023 00:00:00	Metayage IP Strategy Consulting LLP, No. 501A, E Block, 4th Floor, PSG STEP, PSG College of Technology, Peelamedu, Coimbatore - 641004, Tamilnadu, India.	ipo@myipstrategy.com,arjun@myipstrategy.com
28	CHENNAI	202141034052	19/05/2023 00:00:00	LEXORBIS 606-607, 6th Floor, Gamma Block, Sigma Soft Tech Park No. 7, Whitefield Main Road, Varthur Hobli, Bengaluru 560066, Karnataka	shivani@lexorbis.com
29	CHENNAI	201941038499	19/05/2023 00:00:00	R.K.DEWAN & CO. PODAR CHAMBERS, S A. BRELVI ROAD, FORT, MUMBAI 400001 MAHARASHTRA INDIA	dewan@rkdewanmail.com
30	CHENNAI	202047049977	19/05/2023 00:00:00	De Penning & De Penning 120 Velachery Main Road, Guindy, Chennai 600 032 9144 - 42213444 8939824355 9144 - 42213402	patent@depenning.com
31	CHENNAI	202241035176	19/05/2023 00:00:00	DOLA SUNDEEP, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, (IIITDM) KURNOOL, (AN INSTITUTE OF NATIONAL IMPORTANCE UNDER MHRD, GOVT. OF INDIA), KURNOOL - 518 007, ANDHRA PRADESH. <a href="mailto:sundeepdola@gmail.com">sundeepdola@gmail.com</a>	sundeepdola@gmail.com



32	CHENNAI	202241065548	19/05/2023 00:00:00	Chettinad Hospital and Research Institute, Chettinad Academy of Research and Education, Rajiv Gandhi Salai, Kelambakkam, Chengalpattu, Tamil Nadu-603103, India	patent@care.edu.in,ankushchauhan18@gmail.com
33	CHENNAI	202341004501	19/05/2023 00:00:00	Novel Patent Services Pvt. Ltd., Plot #47, Sai Priya Layout, Opp. IIM-Vizag Road, Gambheeram, Anandapuram, Visakhapatnam-531163, Andhra Pradesh, India	iprfilings@novelpatent.com,hima@novelpatent.com
34	CHENNAI	202147048010	19/05/2023 00:00:00	C/O LAKSHMI KUMARAN & SRIDHARAN, 2, Wallace garden, 2nd Street, Chennai - 600 006 India	IPRDEL@LAKSHMISRI.COM
35	CHENNAI	202347005337	19/05/2023 00:00:00	Megha Banerjee Philips Intellectual Property & Standards Philips India Limited, Manyata Tech Park, Nagavara, Bangalore 560045.	ip.administration.india@philips.com

**WEEKLY ISSUED FER (KOLKATA)**

<b>SNO</b>	<b>LOCATION</b>	<b>APPLICATION NUMBER</b>	<b>FER DATE</b>	<b>ADDRESS FOR SERVICE</b>	<b>EMAIL</b>
1	KOLKATA	202331025091	15/05/2023 00:00:00	PATENTWIRE A-199, Ground Floor, Defence Colony, New Delhi-110024, India	desk@patentwire.co.in,patentwire@patentwire.co.in
2	KOLKATA	202231012663	15/05/2023 00:00:00	3M-IPR ASSOCIATES, 72, SANGANOOR ROAD, GANAPATHY, COIMBATORE-641 006	info@3m-ipr.com
3	KOLKATA	202137037763	15/05/2023 00:00:00	L.S DAVAR & COMPANY Globsyn Crystals, Tower 1, 2nd Floor, Block EP, Plot No. 11 & 12, Salt Lake, Sector V, Kolkata-700091, West Bengal.	kolkatapatent@lsdavar.in
4	KOLKATA	202238023996	17/05/2023 00:00:00	D.P AHUJA & Co. 14/2 Palm Avenue, Calcutta 700 019, West Bengal, India	patents@dpahuja.in,patents@dpahuja.com
5	KOLKATA	201637044697	19/05/2023 00:00:00	S. MAJUMDAR And CO. 5 Harish Mukherjee Road Kolkata 700 025 West Bengal India	cal@patentindia.com
6	KOLKATA	201931011250	19/05/2023 00:00:00	L.S.DAVAR & CO. Globsyn Crystals,Tower 1,2nd Floor, Block EP,Plot No. 11 & 12,Salt Lake Sector V, Kolkata 700 091, India	kolkatapatent@Lsdavar.in,docketing@Lsdavar.in

**PUBLICATION U/R 84(3) IN RESPECT OF APPLICATION FOR  
RESTORATION OF PATENT(CHENNAI)**

Notice is hereby given that any person interested in opposing the following applications for Restoration of Patent under Section 60 of the Patent Act, 1970, may at any time within 2 months from the date of Publication of this notice, give notice to the Controller of Patents at the appropriate office on the prescribed Form 14 under Rule 85 of the Patents (Amendment) Rules, 2006.

PATENT NUMBER	APPLICANT	TITLE	DATE OF CESSATION	APPROPRIATE OFFICE
357553	LUOYANG LANDGLASS TECHNOLOGY CO., LTD.	SEALING DEVICE FOR SLOT-TYPE VACUUM GLASS	22/12/2021	CHENNAI
332228	KIRLOSKAR ELECTRIC COMPANY LIMITED	SQUIRREL-CAGE INDUCTION MOTOR FOR HYBRID AND ELECTRIC VEHICLE	13/09/2021	CHENNAI
380493	SPREADTRUM COMMUNICATIONS (SHANGHAI) CO. LTD.	SERVICE OPERATOR DETERMINING METHOD AND RESIDING METHOD FOR MULTI CARD MOBILE TERMINAL	28/01/2022	CHENNAI
380277	SPREADTRUM COMMUNICATIONS (SHANGHAI) CO. LTD.	A METHOD FOR INTERCHANGING DATA BETWEEN THE THREE DEMENSIONAL SHOPPING PLATFORM AND THE EXTERNAL PLATFORM	27/01/2022	CHENNAI
394168	RAJASEKHAR CHEKKARA	2-AMINOPYRIMIDINE FUSED 7-AZAINDAZOLE DERIVATIVES AS ANTICANCER AGENTS	04/07/2022	CHENNAI
302754	SELFDOT TECHNOLOGIES (OPC) PVT LTD	AUTOMATED VERIFICATION OF OPTICAL RANDOMNESS IN SECURITY LABEL	09/06/2022	CHENNAI
382577	DR. PATTATHIL KUNJUKRISHNAN SUNDARA RAJ	AN ELONGATED BONE IMPREGNATED HIP SCREW	25/02/2022	CHENNAI

**PUBLICATION U/R 84[3] IN RESPECT OF APPLICATION  
FOR RESTORATION OF PATENTS (KOLKATA)**

Notice is hereby given that any person interested in opposing the following applications for Restoration of Patents under Section 60 of the Patent Act, 1970, may at any time within 2 months from the date of publication of this notice, give notice to the Controller of Patents at the appropriate office on the prescribed Form 14 under rule 85 of the Patents Rules, 2003.

<b>Patent No.</b>	<b>Applicants</b>	<b>Title</b>	<b>Date of Cessation</b>	<b>Appropriate Office</b>
372516	PEM MANAGEMENT, INC.	CLINCH PIN FASTENER	09/05/2022	Kolkata
383208	JETYD CORPORATION	APPARATUS FOR TIGHTENING THREADED FASTENERS	28/02/2022	Kolkata
380304	MOTEURS LEROY SOMER	ELECTRIC MACHINE HAVING A COUPLING FLANGE	04/03/2022	Kolkata
291794	ATLAS ELEKTRONIK GMBH	METHOD AND APPARATUS FOR PASSIVE DETERMINATION OF TARGET DATA	20/05/2021	Kolkata

**APPLICATION FOR RESTORATION OF  
PATENT NO. 318003 & 356075 U/R.84(KOLKATA)**

(1)

The application for restoration of ceased Patent No. 318003(1013/KOL/2011) was published in the Journal No. 48/2022 dated the 2<sup>nd</sup> December, 2022 remain ceased w.e.f. 9<sup>th</sup> November, 2019 owing to non-payment of Renewal Fees.

(2)

The application for restoration of ceased Patent No. 356075(1628/KOLNP/2014) was published in the Journal No. 48/2022 dated the 2<sup>nd</sup> December, 2022 remain ceased w.e.f. 19<sup>th</sup> April, 2021 owing to non-payment of Renewal Fees.

## Publication Under Section 43(2) in Respect of the Grant

Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed form-7 along with written statement and evidence, if any.

Serial Number	Patent Number	Application Number	Date of Application	Date of Priority	Title of Invention	Name of Patentee	Date of Publication of Abstract u/s 11(A)	Appropriate Office
1	432252	201617015063	13/10/2014	15/10/2013	STRAW FOR CONSERVING A PRE DETERMINED DOSE OF A LIQUID BASED SUBSTANCE ESPECIALLY PURE OR DILUTED ANIMAL SEMEN AND ASSEMBLY COMPRISING SAME	IMV TECHNOLOGIES	31/08/2016	DELHI
2	432258	8749/DELNP/2013	19/03/2012	18/03/2011	A METHOD FOR RECOVERING ENERGY FROM A MOTHER LIQUOR IN A PX CRYSTALLIZATION PROCESS	Sulzer Management AG	19/12/2014	DELHI
3	432259	201711046840	27/12/2017 16:36:28		A SENSING DEVICE FOR REMOTELY SENSING ACTUATION OF PYROTECHNIC FASTENER	CHAIRMAN, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO)	05/07/2019	DELHI
4	432264	318/DEL/2013	04/02/2013 17:16:37		A SCISSORS BASED EXTENDABLE BOOM	DIRECTOR GENERAL, DEFENCE RESEARCH AND DEVELOPMENT ORGANISATION	22/08/2014	DELHI
5	432266	202117057829	31/05/2020	31/05/2019	BAND CLAMP	OETIKER SCHWEIZ AG	17/06/2022	DELHI
6	432272	201814041046	30/10/2018 19:26:00	25/12/2017	BATTERY PACK	YAZAKI CORPORATION	28/06/2019	DELHI
7	432273	201617011150	30/09/2014	30/09/2013	MICRONEEDLE PATCHES SYSTEMS AND METHODS	GEORGIA TECH RESEARCH CORPORATION	12/08/2016	DELHI
8	432274	7138/DELNP/2013	28/02/2012	01/03/2011	SURGICAL INSTRUMENT HAVING A MULTIPLE RATE DIRECTIONAL SWITCHING MECHANISM	ETHICON ENDO SURGERY INC.	23/01/2015	DELHI

9	432276	202117046835	18/02/2020	18/03/2019	RESIDUAL CHARGE AMOUNT COMPARISON DEVICE, RESIDUAL CHARGE AMOUNT COMPARISON METHOD, AND RESIDUAL CHARGE AMOUNT COMPARISON PROGRAM	HONDA MOTOR CO.,LTD.	04/02/2022	DELHI
10	432277	202118036267	28/04/2015	05/05/2014	PROCESS FOR THE PREPARATION OF OPIOID COMPOUNDS	Noramco, LLC	04/02/2022	DELHI
11	432281	939/DEL/2013	28/03/2013 14:33:17		BRAKE ACTUATOR	HERO MOTOCORP LIMITED	06/05/2016	DELHI
12	432282	3962/DEL/2012	21/12/2012 13:07:26		A METHOD FOR PREPARING AN HERBAL BASED INSECT REPELLENT FORMULATION WITH MICROENCAPSULATION OF CITRONELLA OIL FOR SLOW RELEASE•	AMITY UNIVERSITY	26/09/2014	DELHI
13	432284	201817041461	21/04/2017	22/04/2016	FIBRES COMPRISING MICROFIBRILLATED CELLULOSE AND METHODS OF MANUFACTURING FIBRES AND NONWOVEN MATERIALS THEREFROM	FIBERLEAN TECHNOLOGIES LIMITED	14/12/2018	DELHI
14	432287	201617016296	27/12/2013	27/12/2013	TARGET WELL RANGING METHOD APPARATUS AND SYSTEM	HALLIBURTON ENERGY SERVICES INC.	31/08/2016	DELHI
15	432290	201617014263	30/09/2014	30/09/2013	TUBE WITH TAG AND METHOD FOR SERVICING THE TUBE	CEJN AB	31/08/2016	DELHI
16	432291	201911007933	28/02/2019 17:59:00		METHOD OF OPTIMIZING FILLING A PRESSURIZED CONTAINER	UCS Wellness Pvt. Ltd.	20/03/2020	DELHI
17	432295	201714023100	30/06/2017 17:17:43	22/12/2016	APPARATUS FOR PRODUCING MICROPOROUS PLASTIC FILM	KAGAWA, Seiji,KAGAWA, Atsuko	22/06/2018	DELHI
18	432296	201614017914	25/05/2016 13:02:03	28/05/2015	MODULAR SUPPORT ASSEMBLY FOR A SOLAR POWER SYSTEM	SUN RISE E & T CORPORATION	02/12/2016	DELHI

19	432298	201617038084	04/06/2015	06/06/2014	HEAT PROTECTION ASSEMBLY FOR A CHARGING INSTALLATION OF A METALLURGICAL REACTOR	PAUL WURTH S.A.	10/02/2017	DELHI
20	432300	202117027154	05/12/2019	21/12/2018	APPARATUS AND METHOD FOR SEPARATING AIR BY CRYOGENIC DISTILLATION	L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE	26/11/2021	DELHI
21	432305	201617021497	23/01/2015	27/01/2014	FLUID SEAL STRUCTURE OF HEAT ENGINE INCLUDING STEAM TURBINE	mitsubishi heavy industries, ltd.	31/08/2016	DELHI
22	432308	201717000020	02/02/2015	06/06/2014	ABSORBENT ARTICLE	UNICHARM CORPORATION	07/04/2017	DELHI
23	432311	201817010191	25/08/2016	04/09/2015	MOLECULES HAVING PESTICIDAL UTILITY	CORTEVA AGRISCIENCE LLC	06/07/2018	DELHI
24	432315	201617043089	12/06/2015	20/06/2014	VARIANTS OF EXOGLUCANASES HAVING IMPROVED ACTIVITY AND USES THEREOF	IFP ENERGIES NOUVELLES, PROT%U S, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS	31/03/2017	DELHI
25	432318	202217016144	21/08/2020	23/08/2019	THREE-LAYER ABRASIVE DISK	ATLANTIC GMBH	08/07/2022	DELHI
26	432320	202017002745	25/07/2019	29/11/2018	CAMP RECEPTOR PROTEIN MUTANT AND L-AMINO ACID PRODUCTION METHOD USING SAME	CJ CHEILJEDANG CORPORATION	29/01/2021	DELHI
27	432321	1174/DELNP/2015	20/05/2013	31/07/2012	A FITTING TO BE CONNECTED TO A PIPE	IHARA SCIENCE CORPORATION	26/06/2015	DELHI
28	432322	201814046372	07/12/2018 16:54:00	13/12/2017	METHOD OF ASSEMBLING A RAIL VEHICLE BODY	ALSTOM Transport Technologies	14/06/2019	DELHI
29	432325	8346/DELNP/2015	13/03/2014	15/03/2013	CONTROLLED-CONDUCTIVE FLEXIBLE FABRIC CONTAINER WITH A REDUCED ENERGY OF ELECTROSTATIC DISCHARGE	TEXENE LLC	10/06/2016	DELHI
30	432326	2287/DELNP/2015	23/08/2013	23/08/2012	METHOD OF ESTABLISHING COMMUNICATION LINK AND DISPLAY DEVICES THEREOF	SAMSUNG ELECTRONICS CO. LTD.	21/08/2015	DELHI



31	432328	2549/DEL/2014	05/09/2014 15:53:13	10/09/2013	PLATFORM FOR ACCESSING A HYDRAULIC MACHINE AND METHODS FOR INSTALLING AND DISASSEMBLING SUCH A PLATFORM IN A SUCTION TUBE	GE RENEWABLE TECHNOLOGIES	22/04/2016	DELHI
32	432329	202111022193	18/05/2021 15:16:51		MODULAR UNMANNED AERIAL VEHICLE	INDIAN ROBO STORE	23/07/2021	DELHI
33	432332	202017021092	23/10/2018	26/10/2017	ANNULAR BRACKET FOR EXTERNALLY LOADING A TOWER SEGMENT, EXTERNAL LOADING SYSTEM OF A HYBRID TOWER, TOWER SECTION OF A HYBRID TOWER, HYBRID TOWER, WIND TURBINE, AND ASSEMBLY METHOD OF AN EXTERNAL LOADING SYSTEM FOR A HYBRID TOWER	WOBEN PROPERTIES GMBH	14/08/2020	DELHI
34	432334	201617014299	26/09/2014	26/09/2013	A MOTION PLATFORM	SEQUILIBRER PTY LTD	31/08/2016	DELHI
35	432336	5614/DELNP/2015	22/02/2013	22/02/2013	A NETWORK NODE AND A METHOD OF A NETWORK NODE OF CONTROLLING DATA PACKET DELIVERY TO A MOBILE TERMINAL IN CASE OF DATA RATE THROTTLING AFTER HAVING REACHED A DATA DOWNLOAD CAP	TELEFONAKTIEBOLA GET L M ERICSSON (PUBL)	22/01/2016	DELHI
36	432340	201817007912	05/08/2016	07/08/2015	COMPOSITION COMPRISING TASTE MODULATION COMPOUNDS THEIR USE AND FOODSTUFF COMPRISING THEM	V. MANE FILS	25/05/2018	DELHI
37	432346	1805/DEL/2013	19/06/2013 12:51:08	28/09/2012	STORAGE STRUCTURE OF PORTABLE INFORMATION TERMINAL FOR VEHICLE	HONDA MOTOR CO., LTD.	13/02/2015	DELHI

38	432351	2010/DEL/2015	03/07/2015 11:11:10		SYSTEMS FOR ASSISTING VISUALLY IMPAIRED	DR.EKRAM KHAN,MR.ABHINAND AN JAIN,MR.SHASHANK VARSHNEY	31/07/2015	DELHI
39	432352	5659/DELNP/2014	30/12/2011	30/12/2011	SYSTEMS AND METHODS OF REMOTE COMMUNICATION	SCHNEIDER ELECTRIC IT CORPORATION	03/04/2015	DELHI
40	432354	201617016942	06/11/2014	06/11/2013	REAR WINDSCREEN WIPER DEVICE	FEDERAL MOGUL MOTORPARTS CORPORATION	31/08/2016	DELHI
41	432355	1379/DEL/2012	04/05/2012 15:07:07	09/05/2011	METHOD AND KIT FOR GENERATOR ENHANCEMENT	GENERAL ELECTRIC COMPANY	30/10/2015	DELHI
42	432356	202117001546	19/07/2019	20/07/2018	PROCESS FOR THE SEPARATION OF ETHYLBENZENE FROM OTHER C8 AROMATIC COMPOUNDS	SCG CHEMICALS CO., LTD.,SULZER MANAGEMENT AG	26/03/2021	DELHI
43	432357	8434/DELNP/2012	09/03/2011	10/03/2010	PIPERIDIN-4-YL AZETIDINE DERIVATIVES AS JAK1 INHIBITORS	INCYTE HOLDINGS CORPORATION	15/01/2016	DELHI
44	432364	201813000751	18/05/2015		NON INVASIVE MASK CONNECTING T PIECE SHAPED ELBOW WITH MULTIPLE CONNECTION PORTS	DEEPAK CHANDER	12/07/2019	DELHI
45	432376	201617042027	16/06/2015	16/06/2014	COOLING AND/OR FREEZING DEVICE	LIEBHERR HAUSGER,,TE LIENZ GMBH,LIEBHERR HAUSGER,,TE OCHSENHAUSEN GMBH	10/03/2017	DELHI
46	432377	201617024160	25/12/2013	25/12/2013	TUNNELING MACHINE AND METHOD TO PREVENT TUNNELING MACHINE FROM BEING INCAPABLE OF EXCAVATING	N. JET ENGINEERING CO. LTD.,AN ENGINEERING CO. LTD.	31/08/2016	DELHI
47	432381	201717039135	15/04/2016	17/04/2015	PRODUCING POLYOLEFIN PRODUCTS	UNIVATION TECHNOLOGIES LLC	15/12/2017	DELHI
48	432382	201717010080	16/10/2015	23/10/2014	DEVICE AND METHOD FOR COOLING A FLUID	IPCo Germany GmbH,	08/09/2017	DELHI
49	432385	202111001491	13/01/2021 11:15:41		METHOD OF SYNTHESIS OF CELLULOSE 2,3 DIAMINO HALAMINE	INDIAN INSTITUTE OF TECHNOLOGY ROPAR	23/09/2022	DELHI

50	432388	9451/DELNP/2015	03/03/2014	15/04/2013	VEHICLE OPERABLE BY MEANS OF A MOTOR AND USING MUSCLE POWER	ROBERT BOSCH GMBH	05/02/2016	DELHI
51	432389	201717032799	16/02/2016	16/03/2015	RESISTANCE SPOT WELDING METHOD AND METHOD FOR MANUFACTURING RESISTANCE SPOT WELDED JOINT	JFE STEEL CORPORATION	24/11/2017	DELHI
52	432393	202217037079	10/06/2020	20/12/2019	ROTOR SUPPORT, ROTOR, MOTOR, AND WIND TURBINE	XINJIANG GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.	04/11/2022	DELHI
53	432394	201811034439	12/09/2018 18:34:40		A PROCESS FOR THE PREPARATION OF FLAZASULFURON OR OF SALTS THEREOF	PI INDUSTRIES LTD	13/03/2020	DELHI
54	432395	3188/DEL/2013	28/10/2013 16:25:00	04/12/2012	A SEATING ARRANGEMENT FOR A PASSENGER VEHICLE	FORD GLOBAL TECHNOLOGIES, LLC	27/02/2015	DELHI
55	432398	202117019369	23/10/2019	30/10/2018	PRODUCTION OF HYDROXYETHYLPIPE RAZINE	DOW GLOBAL TECHNOLOGIES LLC	21/01/2022	DELHI
56	432399	201717009127	15/07/2015	30/09/2014	METHOD OF MANUFACTURING ABSORBENT ARTICLE	UNICHARM CORPORATION	18/08/2017	DELHI
57	432405	201717029321	15/02/2016	18/02/2015	TRACK MODULE APPARATUS WITH LOAD INDEPENDENT LOAD DISTRIBUTION	ATI INC.	17/11/2017	DELHI
58	432411	6001/DELNP/2013	10/01/2012	10/01/2011	STEM CELL FACTOR INHIBITOR	THE REGENTS OF THE UNIVERSITY OF MICHIGAN	05/12/2014	DELHI
59	432413	201814033785	07/09/2018 17:56:00	08/09/2017	STEREOSCOPIC DISPLAY DEVICE HAVING A BARRIER PANEL	LG Display Co., Ltd.	15/03/2019	DELHI
60	432415	3972/DELNP/2015	12/11/2012	12/11/2012	NETWORK DEVICE METHOD COMPUTER PROGRAM AND COMPUTER PROGRAM PRODUCT FOR DETERMINING A SET OF POWER STATE PARAMETERS	TELEFONAKTIEBOLA GET L M ERICSSON (PUBL)	02/10/2015	DELHI
61	432416	5159/DELNP/2013	21/12/2010	22/11/2010	MOLDABLE INJURY THERAPY DEVICE AND METHOD	BSN MEDICAL INC.	28/11/2014	DELHI
62	432419	2367/DELNP/2015	05/09/2013	06/09/2012	A NOVEL LIVE ATTENUATED SHIGELLA VACCINE	EVELIQUIRE BIOTECHNOLOGIES GMBH	04/09/2015	DELHI

63	432423	201617044226	25/06/2015	27/06/2014	ADVANCED SCREEN CONTENT CODING WITH IMPROVED PALETTE TABLE AND INDEX MAP CODING METHODS	HUAWEI TECHNOLOGIES CO. LTD.	14/04/2017	DELHI
64	432427	3142/DEL/2013	23/10/2013 12:57:38	29/10/2012	METHOD FOR RECOGNISING THE TYPE OF FUEL ACTUALLY USED IN AN INTERNAL COMBUSTION ENGINE	MAGNETI MARELLI S.P.A.	27/02/2015	DELHI
65	432433	201911030871	31/07/2019 12:41:14		BIOSENSOR FOR DETECTING CANCER USING EXHALED BREATH	Indian Institute of Technology Roorkee	05/02/2021	DELHI
66	432434	2138/DEL/2012	11/07/2012		DEGRADATION OF EHTIDIUM BROMIDE USING BACTERIAL STRAIN	AMITY UNIVERSITY	26/12/2014	DELHI
67	432436	201717018609	09/11/2015	10/11/2014	WATERMARK FORMATION ELEMENT	Portals Paper Limited	17/11/2017	DELHI
68	432440	4261/DELNP/2015	13/11/2013	14/11/2012	DEVICE FOR CENTRIFUGAL COMBUSTION BY AREA USING FLOW OF COMBUSTION AIR	POSCO	01/07/2016	DELHI
69	432442	201917021730	12/10/2017	08/11/2016	POWER SUPPLY CONTROL APPARATUS AND BATTERY UNIT	DENSO CORPORATION	06/09/2019	DELHI
70	432447	10968/DELNP/2014	09/07/2013	11/07/2012	A TOY BRICK	LEGO A/S	18/09/2015	DELHI
71	432449	201817003326	17/08/2016	08/09/2015	COOLANT PASSAGE DEVICE FOR INTERNAL COMBUSTION ENGINE	NIPPON THERMOSTAT CO. LTD.,TOYOTA JIDOSHA KABUSHIKI KAISHA	11/05/2018	DELHI
72	432452	11094/DELNP/2013	25/05/2012	28/06/2011	ELECTRICAL ARCHITECTURE OF A HYBRID VEHICLE AND CONTROL METHOD	RENAULT S.A.S.	02/01/2015	DELHI
73	432458	201617022824	04/12/2014	04/12/2013	CARTRIDGE FOR STORING COMPRESSED AIR	TECHNOFLUID ENGINEERING S.R.L.	31/08/2016	DELHI
74	432462	201817045805	11/10/2017	14/10/2016	CARTRIDGE ASSEMBLY	ILLUMINA, INC.,ILLUMINA, SINGAPORE PTE. LTD.	12/04/2019	DELHI

75	432463	201717011602	07/10/2015	09/10/2014	METHOD FOR PRODUCING METAL PLATE WITH PROTRUDING RIDGE METAL PLATE WITH PROTRUDING RIDGE AND STRUCTURAL COMPONENT	NIPPON STEEL CORPORATION	22/09/2017	DELHI
76	432466	201617014988	02/10/2014	02/10/2013	REST STATION DEVICE COMPRISING COMPOSTING SYSTEM	ECOLOO AB	31/08/2016	DELHI
77	432468	1623/DEL/2013	30/05/2013 12:09:45	08/06/2012	A surgical system comprising a surgical fastener•	DEPUY MITEK, LLC	13/02/2015	DELHI
78	432470	201711024694	12/07/2017 18:33:49		AN EFFICIENT PROCESS OF PRODUCTION OF BACTERIAL CELLULOSE FROM TOMATO JUICE USING ACETOBACTERPASTE URIANS STRAIN RSV-4	RAJENDER SINGH SANGWAN	18/01/2019	DELHI
79	432471	202017000832	23/08/2018	25/08/2017	ASSEMBLIES AND PROCESSES FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING ORIENTED NON-SPHERICAL OBLATE MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES	SICPA HOLDING SA	28/02/2020	DELHI
80	432474	201811019033	21/05/2018 20:09:27		FORMULATION COMPRISING PODOPHYLLOTOXIN, AND IMPLEMENTATIONS THEREOF	CHAIRMAN, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION	22/11/2019	DELHI
81	432475	2454/DEL/2011	29/08/2011 12:38:01	30/08/2010	SUTURE ANCHOR AND THREADER	DEPUY MITEK, INC.	04/01/2013	DELHI
82	432478	1428/DEL/2014	30/05/2014 09:49:11		APPARATUS FOR AND METHOD OF CUTTING STITCHING THREADS JOINING CONSECUTIVE BAGS ON A BAG MAKING LINE	Lohia Corp Limited	31/08/2016	DELHI
83	432480	201717007072	01/09/2015	02/09/2014	MODIFIED NUCLEOTIDES FOR SYNTHESIS OF NUCLEIC ACIDS	DNA SCRIPT	23/06/2017	DELHI

84	432481	201917051392	11/05/2018	12/05/2017	METHOD OF PREPARING (3R,4S)-3-ACETAMIDO-4-ALLYL-N-(TERT-BUTYL)PYRROLIDINE-3-CARBOXAMIDE	CALITHERA BIOSCIENCES, INC.	24/01/2020	DELHI
85	432484	201917051911	22/06/2018	22/06/2017	METHODS OF PRODUCING DRUG-CARRYING POLYMER SCAFFOLDS AND PROTEIN-POLYMER-DRUG CONJUGATES	MERSANA THERAPEUTICS, INC.	31/01/2020	DELHI
86	432485	7873/DELNP/2015	14/02/2014	14/02/2013	COMPOSITIONS AND METHODS OF ENHANCING IMMUNE RESPONSES TO EIMERIA OR LIMITING EIMERIA INFECTION	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, THE TEXAS A&M UNIVERSITY SYSTEM	15/04/2016	DELHI
87	432497	202217025224	25/11/2020	26/11/2019	AIR-CONDITIONING MANAGEMENT SYSTEM	DAIKIN INDUSTRIES, LTD.	27/05/2022	DELHI
88	432499	7518/DELNP/2015	04/04/2014	05/04/2013	COAXIAL VENTILATOR	TEOH Siang Teik	15/01/2016	DELHI
89	432501	201717029058	23/04/2015	23/04/2015	MAGNETIC RANGING USING MULTIPLE DOWNHOLE ELECTRODES	HALLIBURTON ENERGY SERVICES INC.	17/11/2017	DELHI
90	432506	202011029592	01/12/2020		A DEVICE AND A METHOD TO MEASURE AND MONITOR PHYSICAL PROPERTIES OF MOVING WEB OF SLIT PLASTIC FILM TAPES	Lohia Mechatronik Private Limited	23/09/2022	DELHI
91	432507	201614043477	20/12/2016 16:41:46	31/12/2015	DISPLAY PANEL AND INSPECTION METHOD THEREOF	LG DISPLAY CO., LTD.	28/07/2017	DELHI
92	432508	6690/DELNP/2014	06/11/2012	26/04/2012	DATABASE SYSTEM USING BATCH ORIENTED COMPUTATION	AMADEUS S.A.S.	10/06/2016	DELHI
93	432510	513/DEL/2015	23/02/2015 18:36:44		MULTI-PARTY CONFERENCE CALL THROUGH A CONFERENCE CALLING APPLICATION IN A CELLULAR PHONE	Comviva Technologies Limited	13/03/2015	DELHI
94	432513	1073/DEL/2012	09/04/2012 12:17:47		OPTICAL TRANSPORT NETWORK TRANSIENT MANAGEMENT SYSTEMS AND METHODS	CIENA CORPORATION	31/07/2015	DELHI

95	432515	1950/DEL/2015	30/06/2015 10:41:39	30/06/2014	APPARATUS AND METHOD FOR RECOGNIZING MEDIA, FINANCIAL DEVICE	ATECAP CO., LTD.	29/04/2016	DELHI
96	432516	11378/DELNP/2015	22/05/2014	22/05/2013	NETWORK ASSISTED BOOTSTRAPPING FOR MACHINE TO MACHINE COMMUNICATION	INTERDIGITAL PATENT HOLDINGS, INC.	06/05/2016	DELHI
97	432517	3311/DELNP/2015	26/09/2013	28/09/2012	TRANSPARENT VAPOR- DEPOSITED FILM	DAI NIPPON PRINTING CO., LTD.	09/10/2015	DELHI
98	432519	8348/DELNP/2015	15/05/2014	16/05/2013	TRANSMITTING INFORMATION BASED ON READING SPEED	Advanced New Technologies Co., Ltd.	10/06/2016	DELHI
99	432528	202117025176	11/11/2019	12/11/2018	LIGANDS FOR PRODUCTION OF 1-HEXENE IN CHROMIUM ASSISTED ETHYLENE OLIGOMERIZATION PROCESS	SABIC GLOBAL TECHNOLOGIES B.V.	19/11/2021	DELHI
100	432529	201611038453	10/11/2016 17:28:38		AN INTRAVENOUS INFUSION SET TO ADMINISTER CONTINUOUS AIR FREE DELIVERY OF INTRAVENOUS FLUID TO PATIENTS	POLY MEDICURE LIMITED	06/10/2017	DELHI
101	432534	201717040665	20/05/2016	21/05/2015	METHOD OF PRODUCTION OF ANIMAL FEED	LANZATECH NZ, INC.	12/01/2018	DELHI
102	432538	201717026494	19/01/2016	21/01/2015	BUMPER BEAM	NIPPON STEEL CORPORATION	24/11/2017	DELHI
103	432539	202211044481	03/08/2022 18:33:00		MINI ELECTRIC EXCAVATOR SYSTEM	INJIN-CORPE PRIVATE LIMITED	19/08/2022	DELHI
104	432541	4275/DELNP/2014	01/11/2012	01/11/2011	SURFACE ACOUSTIC WAVE SENSOR	JAPAN RADIO CO. LTD.	20/02/2015	DELHI
105	432543	201717035831	02/03/2016	13/04/2015	PIPE MACHINING APPARATUS WITH A REMOVABLE LASER LINE GENERATOR TOOL	ILLINOIS TOOL WORKS INC.	01/12/2017	DELHI
106	432551	10070/DELNP/2013	11/05/2012	11/05/2011	MODIFIED BIOTIN BINDING PROTEIN FUSION PROTEINS THEREOF AND APPLICATIONS	CHILDRENS MEDICAL CENTER CORPORATION	06/05/2016	DELHI

107	432556	202017019751	31/10/2017	31/10/2017	POLYOLEFIN COMPOSITIONS FOR PHOTOVOLTAIC ENCAPSULANT FILMS	DOW GLOBAL TECHNOLOGIES LLC, YANG, Yunfeng, ZHANG, Kainan, GONG, Yonghua, MA, Weiming, HE, Chao, CHEN, Hongyu, SUN, Yabin, YANG, Hong, LI, Yuyan	14/08/2020	DELHI
108	432557	201811041220	31/10/2018 17:32:00		COMPACT TOUCH-SENSITIVE FORCE-BASED PANEL ASSEMBLY	UNO Minda Limited	14/08/2020	DELHI
109	432560	832/DELNP/2013	06/09/2011	06/09/2010	FOOD ADDITIVE COMPRISING AN AMIDASE FOR DETOXIFYING OCHRATOXIN	DuPont Nutrition Biosciences ApS	24/10/2014	DELHI
110	432563	201817036879	09/03/2017	09/03/2016	ULTRASOUND IMAGE RECOGNITION SYSTEMS AND METHODS UTILIZING AN ARTIFICIAL INTELLIGENCE NETWORK	ECHONOUS, INC.	25/01/2019	DELHI
111	432565	6628/DELNP/2014	16/01/2013	17/01/2012	A NETWORK COMMUNICATION REDUNDANCY METHOD	Net Insight AB	22/05/2015	DELHI
112	432566	201817007133	09/09/2016	11/09/2015	SETUP OF VALVE CONTROLLER	ALFA LAVAL CORPORATE AB	29/06/2018	DELHI
113	432573	201617045192	05/06/2015	06/06/2014	METHODS AND COMPOSITIONS FOR MODIFYING A TARGETED LOCUS	REGENERON PHARMACEUTICALS INC.	28/04/2017	DELHI
114	432575	10322/DELNP/2015	07/05/2014	07/05/2013	METHOD OF MANUFACTURING A COMPOSITE MATERIAL	NEUVOKAS CORPORATION	05/02/2016	DELHI
115	432576	11265/DELNP/2013	28/06/2012	29/06/2011	DATA LOCKER SYNCHRONIZATION	AMAZON TECHNOLOGIES, INC.	02/01/2015	DELHI
116	432578	201717011691	14/12/2015	17/12/2014	INDOOR UNIT FOR AIR CONDITIONING DEVICE	DAIKIN INDUSTRIES LTD.	22/09/2017	DELHI
117	432579	201817026849	27/01/2017	05/02/2016	VEHICLE FRONT-END STRUCTURE	NIPPON STEEL CORPORATION	16/11/2018	DELHI
118	432580	201717014015	08/10/2015	24/10/2014	CONJUGATES AND CONJUGATING REAGENTS	POLYETHERICS LIMITED	18/08/2017	DELHI



119	432584	201817027505	25/01/2017	26/01/2016	PRESS APPARATUS AND PRODUCTION METHOD FOR PRESS-MOLDED ARTICLE	NIPPON STEEL CORPORATION	30/11/2018	DELHI
120	432585	201717023355	10/12/2015	10/12/2014	INK HOLDING UNIT AND INKJET PRINTER	BROTHER KOGYO KABUSHIKI KAISHA	22/09/2017	DELHI
121	432588	201617011931	16/09/2014	16/09/2013	BIOMETRIC TEMPLATE SECURITY AND KEY GENERATION	JUMIO CORPORATION	19/08/2016	DELHI
122	432589	9089/DELNP/2014	19/04/2013	20/04/2012	SOLID PHASE PEPTIDE SYNTHESIS OF INSULIN USING SIDE CHAIN ANCHORED LYSINE	CHEMICAL & BIOPHARMACEUTICAL LABORATORIES OF PATRAS S.A.	22/05/2015	DELHI
123	432594	2821/DEL/2015	08/09/2015 20:27:04		INTRAVENOUS CATHETER WITH A SECURED MECHANISM TO AVOID REVERSE FLOW OF THE BLOOD	NEERAJ GUPTA	30/10/2015	DELHI
124	432596	201917051379	15/05/2018	12/06/2017	PROCESSING UNIT AND PROCESSING METHOD FOR FRONT RECOGNITION SYSTEM, FRONT RECOGNITION SYSTEM, AND MOTORCYCLE	ROBERT BOSCH GMBH	24/01/2020	DELHI
125	432597	201717037781	19/04/2016	20/04/2015	STRAW FOR PRESERVING A PRESET DOSE OF A LIQUID BASED SUBSTANCE	IMV TECHNOLOGIES	29/12/2017	DELHI
126	432598	201717038306	14/04/2016	16/04/2015	COMBUSTION METHODS FOR LOW VELOCITY FUEL STREAM	PRAXAIR TECHNOLOGY INC.	05/01/2018	DELHI
127	432599	201717011026	29/05/2015	06/01/2015	ENVIRONMENT CONTROLLED COOLING FOR A DATA CENTER BASED ON DETECTION OF CONTAMINANTS AND PARTICULATES IN OUTSIDE AIR	DELL PRODUCTS L.P.	15/09/2017	DELHI
128	432602	202017033662	10/01/2019	10/01/2018	NOVEL PROCESSES AND INTERMEDIATES FOR THE PREPARATION OF SOLUBLE GUANYLATE CYCLASE STIMULATORS	CYCLERION THERAPEUTICS, INC.	18/09/2020	DELHI

129	432603	4547/DELNP/2013	17/11/2011	23/11/2010	PRODUCTS WITH IMPROVED FOAMING PROPERTIES	Socit des Produits Nestl S A,	28/11/2014	DELHI
130	432607	3258/DEL/2012	22/10/2012 12:41:48		SYNTHESIS OF 2-[3-(SUBSTITUTED PHENYL)PROPAN-3-ONE]-5-PHENYL-1,3,4-OXADIAZOLE ANALOGUES AND USES THEREOF	VIPIN SAINI,SUMAN BALA,SUNIL KAMBOJ,DEO NANDAN PRASAD	08/04/2016	DELHI
131	432609	202217000977	06/07/2020	10/07/2019	FLUIDIZED CRACKING PROCESS FOR INCREASING OLEFIN YIELD AND CATALYST COMPOSITION FOR SAME	W.R. GRACE & CO.-CONN.	11/03/2022	DELHI
132	432612	6581/DELNP/2014	18/01/2013	18/01/2012	MODIFIABLE OCCLUSIVE SKIN DRESSING	WORLDWIDE INNOVATIVE HEALTHCARE INC.	22/05/2015	DELHI
133	432613	201717022448	11/12/2015	12/12/2014	IR TUBE SEALER AND METHODS SEALING A TUBE	SAINT GOBAIN PERFORMANCE PLASTICS CORPORATION	12/01/2018	DELHI
134	432614	201617025998	29/12/2014	08/02/2014	COILED TUBING SURFACE OPERATED DOWNHOLE SAFETY/BACK PRESSURE/CHECK VALVE	BAKER HUGHES, A GE COMPANY, LLC	31/08/2016	DELHI
135	432617	201618020440	20/03/2008	22/03/2007	STIMULATION OF AN IMMUNE RESPONSE BY CATIONIC LIPIDS	PDS BIOTECHNOLOGY CORPORATION	31/08/2016	DELHI
136	432620	3606/DELNP/2015	17/12/2013	21/12/2012	ANTI TERMITE CABLE SHEATHING COMPRISING AN ALIPHATIC POLYAMIDE X.Y WITH X+Y>18 , AN UV ABSORBER AND/OR UV STABILIZER , AND AN ANTIOXIDANT	ARKEMA FRANCE	20/11/2015	DELHI
137	432624	201711033555	21/09/2017 18:34:40		PHARMACEUTICAL COMPOSITIONS FOR DELIVERY OF PEPTIDE	GSCHLIESSER, Siegfried,DESAI, Bhushan Dhruvkumar	29/03/2019	DELHI
138	432625	1461/DELNP/2013	22/08/2011	30/08/2010	RECEIVER APPARATUS RECEPTION METHOD TRANSMITTER APPARATUS TRANSMISSION METHOD PROGRAM AND BROADCAST SYSTEM	SONY CORPORATION	10/10/2014	DELHI

139	432631	1269/DELNP/2015	25/12/2013	05/04/2013	MOBILE COMMUNICATION SYSTEM MME INCOMING CALL CONTROL METHOD FOR MOBILE COMMUNICATION SYSTEM AND INCOMING CALL CONTROL METHOD FOR MME	NEC CORPORATION	03/07/2015	DELHI
140	432632	411/DELNP/2015	26/09/2012	26/09/2012	METHODS FOR PERFORMING LINK ADAPTATION AND RELATED BASE STATIONS	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	19/06/2015	DELHI
141	432633	10030/DELNP/2011	25/06/2010	26/06/2009	METHOD FOR TREATING SINGLE CRYSTAL CVD DIAMOND AND PRODUCT OBTAINED	ELEMENT SIX LIMITED	19/10/2012	DELHI
142	432634	3771/DELNP/2013	25/10/2011	15/11/2010	AGE TAILORED NUTRITIONAL COMPOSITION WITH ANIMAL FATS AND VEGETABLE FATS	Socit des Produits Nestl SA,	22/05/2015	DELHI
143	432635	202117006668	02/09/2019	03/09/2018	CHEMICAL POLISHING LIQUID AND SURFACE TREATMENT METHOD USING SAME	MITSUBISHI GAS CHEMICAL COMPANY, INC.	09/04/2021	DELHI
144	432637	10459/DELNP/2014	03/06/2013	18/06/2012	OPERATING DEVICE OR VACUUM SWITCH	Hitachi Industrial Equipment Systems Co., Ltd. (HIES)	21/08/2015	DELHI
145	432638	201617036791	23/01/2015	28/03/2014	SUSPENSION COIL SPRING	NHK SPRING CO. LTD.	24/03/2017	DELHI
146	432639	201617019232	25/09/2014	09/11/2013	PANT-TYPE WEARING ARTICLE	UNICHARM CORPORATION	31/08/2016	DELHI
147	432640	5044/DELNP/2015	12/11/2013	16/11/2012	MONEY DISPENSING UNIT AND GAMING MACHINE HAVING A MONEY DISPENSING UNIT	NOVOMATIC AG	18/12/2015	DELHI
148	432643	201717027685	09/03/2016	13/03/2015	METHOD FOR SEALING A FLEXIBLE PACKAGE OF COLLAPSIBLE TYPE	ECOLEAN AB	06/10/2017	DELHI
149	432645	201617032001	06/03/2015	20/03/2014	ATTACHMENT FOR A HAND HELD APPLIANCE	DYSON TECHNOLOGY LIMITED	13/01/2017	DELHI
150	432649	201617025557	26/01/2015	31/01/2014	APPARATUS FOR EXTRACTING POWER FROM FLUID FLOW	AIRLOOM ENERGY, INC.	31/08/2016	DELHI

151	432650	201617031461	05/03/2015	24/03/2014	CABLE LACING TIE DEVICES AND METHODS OF USING THE SAME	DANIELS MANUFACTURING CORPORATION	06/01/2017	DELHI
152	432654	201617031849	26/03/2015	27/03/2014	ASSISTANCE DEVICE FOR AN AIRCRAFT FREE TURBINE TURBOMACHINE	SAFRAN HELICOPTER ENGINES	13/01/2017	DELHI
153	432655	201617035421	18/03/2015	21/03/2014	HYDROKINETIC ENERGY CONVERSION SYSTEM AND USE THEREOF	FLUMILL AS	24/02/2017	DELHI
154	432657	201617029531	23/02/2015	26/02/2014	HYDRAULICALLY DRIVEN BELLOWS PUMP	GARNIMAN S.A.	27/01/2017	DELHI
155	432658	201617035011	18/03/2015	18/03/2014	MULTILAYER STRUCTURE AND METHOD FOR PRODUCING SAME PACKAGING MATERIAL AND PRODUCT WHICH USE SAME ELECTRONIC DEVICE PROTECTIVE SHEET AND COATING LIQUID	KURARAY CO. LTD.	24/02/2017	DELHI
156	432659	201717029386	09/03/2016	13/03/2015	APPARATUS AND METHOD FOR FILLING A POUCH TYPE PACKAGE	ECOLEAN AB	17/11/2017	DELHI
157	432660	201714027896	04/08/2017 20:33:17	10/08/2016	ELECTRIC DEFROSTER FOR PURIFYING FLUE GAS	FUJIAN LONGKING CO., LTD.	16/02/2018	DELHI
158	432661	1991/DEL/2015	01/07/2015 16:36:49		A CEILING FAN WITH DISPLAY SYSTEM	ORIENT ELECTRIC LIMITED,	16/02/2018	DELHI
159	432662	201617035371	14/04/2015	14/04/2014	TOWER SEGMENT	VESTAS WIND SYSTEMS A/S	24/02/2017	DELHI
160	432663	201617037115	26/03/2015	28/03/2014	REMOVABLE ELECTRO MECHANICAL DEVICE FOR BURNISHING AND SMOOTHING METAL PARTS	STEROS GPA INNOVATIVE S.L.	31/03/2017	DELHI
161	432665	201717042520	18/09/2015	18/09/2015	LEVELING COMPOSITIONS	HEWLETT PACKARD DEVELOPMENT COMPANY L.P.	23/02/2018	DELHI
162	432668	201617036868	27/05/2015	30/05/2014	DEVIATION PREVENTING COATING MATERIAL	TOKAI OPTICAL CO. LTD.	24/03/2017	DELHI

163	432669	201617034666	20/03/2015	27/03/2014	TURBOSHAFT ENGINE TWIN ENGINE HELICOPTER EQUIPPED WITH SUCH A TURBOSHAFT ENGINE AND METHOD FOR OPTIMISING THE ZERO POWER SUPER IDLE SPEED OF SUCH A TWIN ENGINE HELICOPTER	SAFRAN HELICOPTER ENGINES	17/02/2017	DELHI
164	432671	201617041343	03/02/2015	12/05/2014	ABSORBENT ARTICLE CONTAINING NON-WOVEN FABRIC SHEET FOR ABSORBENT BODY	UNICHARM CORPORATION	03/03/2017	DELHI
165	432672	201617034081	02/04/2015	04/04/2014	METHOD AND APPARATUS FOR CONTROLLING MOISTURE	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	17/02/2017	DELHI
166	432674	1036/DEL/2014	15/04/2014 15:47:44		EVAPORATED FUEL COLLECTING DEVICE	HERO MOTORCORP LIMITED	31/08/2016	DELHI
167	432675	201717020635	22/12/2015	23/12/2014	AQUEOUS COATING COMPOSITION WITH SOFT TOUCH UPON DRYING	COVESTRO (NETHERLANDS) B.V.	24/11/2017	DELHI
168	432676	201817045561	21/12/2017	03/01/2017	FLOWCELL CARTRIDGE WITH FLOATING SEAL BRACKET	ILLUMINA, INC.	21/06/2019	DELHI
169	432682	201717009619	13/11/2014	13/11/2014	RESISTIVITY LOGGING TOOLS WITH TILTED FERRITE ELEMENTS FOR AZIMUTHAL SENSITIVITY	HALLIBURTON ENERGY SERVICES INC.	25/08/2017	DELHI
170	432683	202017016702	21/09/2018	22/09/2017	A SYSTEM TO CHARGE CELLS ASSEMBLED INTO A BATTERY	URBAN ELECTRIC POWER INC.	28/08/2020	DELHI
171	432684	201617021808	19/12/2014	20/12/2013	PROCESSES FOR OBTAINING MICROBIAL OIL FROM MICROBIAL CELLS	DSM IP ASSETS B.V.	31/08/2016	DELHI
172	432687	7129/DELNP/2013	13/02/2012	11/02/2011	AN EMULSION WHIPPABLE AT ROOM TEMPERATURE	PURATOS N.V.	14/08/2015	DELHI
173	432689	9766/DELNP/2015	07/05/2014	10/05/2013	DEVICE- TO -DEVICE (D2D) DISCOVERY	TELEFONAKTIEBOLA GET L M ERICSSON (PUBL)	18/03/2016	DELHI

174	432690	202017052616	24/05/2019	24/05/2018	METHODS OF TREATING PATIENTS AT RISK FOR RENAL INJURY AND RENAL FAILURE	RENIBUS THERAPEUTICS, INC.	26/02/2021	DELHI
175	432695	202117034033	14/06/2019	14/06/2019	POWER CONVERSION DEVICE AND ELECTRIC MOTOR BRAKING METHOD	TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION	29/10/2021	DELHI
176	432700	201717005593	18/06/2015	04/08/2014	POWDER DISPENSING DEVICE AND POWDER COATING INSTALLATION FOR SPRAYING ARTICLES WITH A POWDER COATING	GEMA SWITZERLAND GMBH	19/05/2017	DELHI
177	432701	201717043611	01/08/2016	31/07/2015	WIND TURBINE ROTOR BLADE	WOBLEN PROPERTIES GMBH	29/12/2017	DELHI
178	432703	201717037196	06/04/2016	10/04/2015	MONOAXIALLY ORIENTED MULTILAYER CAST FILM	BOREALIS AG	22/12/2017	DELHI
179	432705	2802/DELNP/2014	11/10/2012	14/10/2011	NOVEL COATING SYSTEM	DSM IP ASSETS B.V.	27/02/2015	DELHI
180	432707	201918011049	08/10/2010	12/10/2009	SYSTEM COMPRISING A SEMICONDUCTOR DEVICE AND STRUCTURE	MONOLITHIC 3D, INC.	28/06/2019	DELHI
181	432708	202117016585	21/10/2019	26/10/2018	AMMONIA DEPOSITION PRECIPITATION PROCESS FOR PRODUCING A COPPER-NICKEL/GAMMA-ALUMINA CATALYST, SAID CATALYST AND ITS USE IN THE CONVERSION OF EXHAUST GASES	UNIVERSITEIT ANTWERPEN, LUREDE RRA CENTRO TECNOLOGICO, UNIVERSITA' DEGLI STUDI DI PADOVA	05/08/2022	DELHI
182	432712	1915/DEL/2015	27/06/2015		AN INTRAVENOUS INFUSION SET TO ADMINISTER CONTINUOUS AIR FREE DELIVERY OF INTRAVENOUS FLUID TO PATIENTS	POLY MEDICURE LIMITED	30/12/2016	DELHI
183	432714	202211009638	23/02/2022 16:57:00		DYE ADSORPTION MEMBRANE	Graphic Era (Deemed to Be University), Graphic Era Hill University, Dehradun Campus	04/03/2022	DELHI

184	432715	5697/DELNP/2012	07/01/2011	11/01/2010	TREATMENT PROCESS FOR SURPLUS SAND FROM CASTING FOR USE IN CORE MAKING AND MOLDING	TUPY S.A.	29/11/2013	DELHI
185	432719	5063/DELNP/2010	07/01/2009	14/01/2008	IMPLANTABLE ONE-PIECE HEART PROSTHESIS	CARMAT	03/02/2012	DELHI
186	432722	201717014617	14/09/2015	29/09/2014	MOUNTING DEVICE FOR BUILDING SURFACES HAVING ELONGATED MOUNTING SLOT	HADDOCK Dustin M.M.,HADDOCK Robert M.M.	15/09/2017	DELHI
187	432724	1337/DELNP/2014	20/08/2012	22/08/2011	WHOLE GREEN COFFEE BEAN PRODUCTS AND METHODS OF PRODUCTION AND USE	VELLA Thomas J.,AMEN Samuel A.	09/01/2015	DELHI
188	432727	201817005583	15/07/2016	20/07/2015	RECOMBINANT ORF VIRUS VECTOR	PRIME VECTOR TECHNOLOGIES GMBH	01/06/2018	DELHI
189	432730	8838/DELNP/2015	07/05/2014	07/05/2013	CATHODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY METHOD FOR MANUFACTURING SAME AND LITHIUM SECONDARY BATTERY INCLUDING SAME	LG ENERGY SOLUTION, LTD.	01/07/2016	DELHI
190	432731	202117004877	05/08/2019	10/08/2018	POLYCARBODIIMIDE COMPOSITION, METHOD FOR PRODUCING POLYCARBODIIMIDE COMPOSITION, WATER-DISPERSED COMPOSITION, SOLUTION COMPOSITION, RESIN COMPOSITION, RESIN CURED PRODUCT, AND CARBODIIMIDE CROSSLINKING AGENT FOR FIBER TREATMENT	MITSUI CHEMICALS, INC.	02/04/2021	DELHI
191	432732	1896/DELNP/2015	29/08/2013	06/09/2012	METHOD AND SYSTEM FOR LASER HARDENING OF A SURFACE OF A WORKPIECE	ETXE TAR S.A.	29/04/2016	DELHI

192	432734	201714020531	12/06/2017 21:39:57	13/06/2016	RUBBER TIRE ROLLER	BOMAG GMBH	15/12/2017	DELHI
193	432737	201617036043	23/04/2015	25/04/2014	TOWER SECTION PRODUCTION PROCESS	VESTAS WIND SYSTEMS A/S	10/03/2017	DELHI
194	432738	201617028167	26/02/2015	12/03/2014	PANTS TYPE DISPOSABLE DIAPER	DAIO PAPER CORPORATION	06/01/2017	DELHI
195	432739	201617011019	13/11/2014	22/11/2013	HIGH STRENGTH STEEL SHEET AND METHOD FOR MANUFACTURING SAME	JFE STEEL CORPORATION	12/08/2016	DELHI
196	432740	767/DEL/2015	20/03/2015 15:52:06		A KIT AND PROCESS FOR THE DIAGNOSIS OF HEMORRHAGIC SEPTICEMIA™	LALA LAJPAT RAI UNIVERSITY OF VETERINARY & ANIMAL SCIENCES	02/06/2017	DELHI
197	432741	201817004105	31/07/2016	03/08/2015	POWER SPLIT TYPE CONTINUOUSLY VARIABLE TRANSMISSION AND OIL SUPPLY STRUCTURE	DAIHATSU MOTOR CO. LTD.	13/04/2018	DELHI
198	432742	201617032831	10/04/2015	10/04/2014	ANTI HER3 ANTIBODY DRUG CONJUGATE	DAIICHI SANKYO COMPANY, LIMITED,,Daiichi Sankyo Europe GmbH	14/07/2017	DELHI
199	432743	201717009679	17/09/2015	24/09/2014	MECHANISM FOR RESTRAINING A PASSENGER IN A RESTRAINT SYSTEM OF AN AMUSEMENT RIDE	MACK RIDES GMBH & CO. KG	25/08/2017	DELHI
200	432744	202017037212	12/03/2020	12/03/2019	ACTIVE SUBSTANCE, ELECTRODE, SECONDARY BATTERY, BATTERY PACK AND CAR	KABUSHIKI KAISHA TOSHIBA	17/09/2021	DELHI
201	432747	202011025978	19/06/2020 19:48:57		ARTIFICIAL INTELLIGENCE- BASED SYSTEM AND METHOD FOR DYNAMICALLY PREDICTING AND SUGGESTING EMOJIS ON A QUICK ACCESS EMOJI INTERFACE	TALENT UNLIMITED ONLINE SERVICES PVT. LTD.	16/07/2021	DELHI
202	432748	9458/DELNP/2014	07/05/2013	11/05/2012	TOOL FOR MANUFACTURING A FOUNDRY CORE FOR A TURBINE ENGINE BLADE AND PRODUCTION METHOD THEREOF	SNECMA	17/07/2015	DELHI



203	432753	201714043752	06/12/2017 17:03:28	08/12/2016	METHOD FOR CONTROLLING A RAILWAY VEHICLE, ASSOCIATED CONTROL SYSTEM AND RAILWAY VEHICLE	ALSTOM Transport Technologies	15/06/2018	DELHI
204	432754	6609/DELNP/2015	29/01/2013	29/01/2013	TO GENERATE A PRINT SPECIFICATION COLOR SEPARATION LOOK UP TABLE	HEWLETT PACKARD DEVELOPMENT COMPANY L.P.	22/07/2016	DELHI
205	432755	201717005198	20/08/2015	21/08/2014	EQUITABLE SHARING OF SYSTEM RESOURCES IN WORKFLOW EXECUTION	MICROSOFT TECHNOLOGY LICENSING LLC	12/05/2017	DELHI
206	432758	201917002688	24/08/2017	22/09/2016	COUPLED INDUCTOR STRUCTURES UTILIZING MAGNETIC FILMS	APPLE INC.	03/05/2019	DELHI
207	432760	201917005470	09/08/2017	16/08/2016	METHOD FOR PRODUCING 2-(3,6-DIHALOPYRIDIN-2-YL)-3H-IMIDAZOL[4,5-C]PYRIDINE DERIVATIVES AND RELATED COMPOUNDS BY REACTION OF THE 3H-IMIDAZOL[4,5-C]PYRIDINE DERIVATIVE WITH AN ORGANOMETALLIC ZINC-AMINE BASE	BAYER CROPSCIENCE AKTIENGESELLSCHAFT	19/04/2019	DELHI
208	432761	6974/DELNP/2015	20/02/2014	28/02/2013	STAPLE FORMING FEATURES FOR SURGICAL STAPLING INSTRUMENT	ETHICON ENDO SURGERY INC.	18/12/2015	DELHI
209	432763	202111004283	01/02/2021 16:37:32		SYSTEM FOR YEAR-ROUND REPEATED BREEDING AND HIGHER ROBUST FRY PRODUCTION OF GOLDEN MAHSEER	The Indian Council of Agricultural Research (ICAR)	12/02/2021	DELHI
210	432764	201714011861	31/03/2017 20:44:37	04/04/2016	VEHICLE CONTROL APPARATUS AND VEHICLE CONTROL METHOD	TOYOTA JIDOSHA KABUSHIKI KAISHA	13/10/2017	DELHI
211	432766	201717027776	14/12/2015	12/03/2015	APPARATUS FOR INSPECTING AND SAMPLING A WOUND COIL OF METAL STRIP	PRIMETALS TECHNOLOGIES AUSTRIA GMBH	13/10/2017	DELHI

212	432767	9362/DELNP/2013	18/05/2012	20/05/2011	METHOD FOR REMOTELY DETERMINING AN ABSOLUTE AZIMUTH OF A TARGET POINT	SAGEM DEFENSE SECURITE	19/12/2014	DELHI
213	432771	201917025931	18/01/2018	23/01/2017	CATHODE ASSEMBLY WITH METALLIC COLLECTOR BAR FOR ELECTROLYTIC CELL SUITABLE FOR THE HALL-H%ROULT PROCESS	DUBAI ALUMINIUM PJSC	23/08/2019	DELHI
214	432775	7681/DELNP/2011	07/07/2005	20/07/2004	A METHOD OF TRANSMITTING PILOT IN A MULTIPLE-INPUT MULTIPLE-OUTPUT COMMUNICATION SYSTEM AND AN APPARATUS THEREOF	QUALCOMM INCORPORATED	22/06/2012	DELHI
215	432781	201717020274	25/11/2014	25/11/2014	BASIC MODULE FOR MAGNETIC CORE OF AN ELECTRICAL TRANSFORMER MAGNETIC CORE COMPRISING SAID BASIC MODULE METHOD FOR MANUFACTURING SAID MAGNETIC CORE AND TRANSFORMER COMPRISING SAID MAGNETIC CORE	APERAM	17/11/2017	DELHI
216	432782	4875/DELNP/2015	23/01/2013	23/01/2013	METHOD AND NETWORK NODE FOR MITIGATION OF INTERFERENCE	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	27/11/2015	DELHI
217	432783	201717036000	31/03/2016	03/04/2015	APPARATUS FOR CONTROLLABLY CUTTING FIBERS AND RELATED METHODS	BRIGHT LITE STRUCTURES LLC	08/12/2017	DELHI
218	432785	201617008799	17/09/2014	23/09/2013	METHOD FOR PRODUCING A SINTERED PART HAVING A HIGHLY PRECISE MOLDED PART HEIGHT AND PARTS SET OF SINTERED JOINING PARTS	GKN SINTER METALS ENGINEERING GMBH	22/07/2016	DELHI
219	432786	201917005259	08/08/2017	08/08/2016	PROCESS FOR PRODUCING INFANT FORMULA PRODUCTS AND DAIRY PRODUCTS	COMPAGNIE GERVAIS DANONE,N.V. NUTRICIA	12/04/2019	DELHI

220	432788	201717046835	25/02/2016	10/06/2015	NICOTINAMIDE RIBOSIDE AND PTEROSTILBENE COMPOSITIONS AND METHODS FOR TREATMENT OF SKIN DISORDERS	ELYSIUM HEALTH INC.	23/02/2018	DELHI
221	432789	202217025138	29/06/2020	25/05/2020	METHOD FOR PREPARATION OF MESENCHYMAL STEM CELL-DERIVED EXOSOME AND CELL CULTURE PREPARED THEREFROM	CK-EXOGENE CO., LTD.	06/05/2022	DELHI
222	432795	201817033510	18/04/2017	28/04/2016	HERBICIDAL AGROCHEMICAL COMPOSITION AND HERBICIDAL METHOD USING SAME	KUMIAI CHEMICAL INDUSTRY CO., LTD.	14/12/2018	DELHI
223	432796	2453/DEL/2014	28/08/2014 15:39:19		ACCELERATOR PEDAL REINFORCEMENT OF A VEHICLE	MARUTI SUZUKI INDIA LIMITED	04/03/2016	DELHI
224	432801	7345/DELNP/2014	13/03/2013	16/03/2012	NETWORK TRIGGERED MEASUREMENTS AND MEASUREMENT REPORTS BY USER EQUIPMENT	TELEFONAKTIEBOLAGE T L M ERICSSON (PUBL)	24/04/2015	DELHI
225	432802	202111041646	15/09/2021 17:38:37		IOT BASED BATTERY CHARGE EQUALIZER FOR EQUALIZING THE CHARGE OF BATTERIES IRRESPECTIVE OF THEIR TYPE•	SU-VASTIKA SYSTEMS PRIVATE LIMITED	29/10/2021	DELHI
226	432803	201817027236	23/12/2016	31/12/2015	GAS INSULATED SWITCHGEAR PARTIAL DISCHARGE DIAGNOSIS METHOD AND DEVICE	Hyosung Heavy Industries Corporation	23/11/2018	DELHI
227	432804	201717036120	07/05/2016	07/05/2015	METHOD AND DEVICE FOR COMBINING MINIMUM ISOLATION BANDWIDTHS	CHINA UNITED NETWORK COMMUNICATIONS GROUP COMPANY LIMITED	08/12/2017	DELHI
228	432805	202011041084	22/09/2020 20:06:33		A METHOD AND SYSTEM FOR AUTOMATED PAINTING OF VEHICLES USING AUTOMATED GUIDED VEHICLE	TAIKISHA ENGINEERING INDIA PRIVATE LIMITED	05/03/2021	DELHI
229	432806	6013/DELNP/2014	16/01/2013	17/01/2012	POWER CONVERTER CIRCUIT POWER SUPPLY SYSTEM AND METHOD	INFINEON TECHNOLOGIES AUSTRIA AG	06/11/2015	DELHI

230	432808	5661/DELNP/2014	23/12/2011	23/12/2011	HIGH DENSITY TERMINAL BLOCK	SCHNEIDER ELECTRIC IT CORPORATION	03/04/2015	DELHI
231	432810	4958/DELNP/2015	25/11/2013	29/11/2012	METAL- AIR BATTERY HAVING A DEVICE FOR CONTROLLING THE POTENTIAL OF THE NEGATIVE ELECTRODE	ELECTRICITE DE FRANCE	11/12/2015	DELHI
232	432811	201717005837	07/08/2015	07/08/2014	SYSTEMS AND METHODS FOR LIQUID PURIFICATION	MICRONIC TECHNOLOGIES INC.	02/06/2017	DELHI
233	432823	202117048036	10/04/2020	12/04/2019	ANTISTATIC FLEXIBLE TUBE	TOYOX CO., LTD.	18/02/2022	DELHI
234	432824	201617007256	21/08/2014	21/08/2013	RUST RESISTANCE GENE	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION	08/07/2016	DELHI
235	432827	1665/DEL/2013	03/06/2013 15:18:56	19/06/2012	METHOD FOR DETECTING STRONG AND/OR DISPLAYING A STATION NAME OF A RADIO TRANSMITTER	ROBERT BOSCH GMBH	13/02/2015	DELHI
236	432830	446/DEL/2008	22/02/2008 15:47:16		VANILLA COMPOSITION AND THE PROCESS FOR ITS PREPARATION	KERALA AGRICULTURAL UNIVERSITY	04/09/2009	DELHI
237	432836	10918/DELNP/2015	13/05/2014	21/05/2013	TURBOMACHINE COMPRISING A CASING WEAR INDICATOR	TURBOMECA	15/04/2016	DELHI
238	432840	201617040081	27/03/2015	28/05/2014	DATA PROCESSOR AND TRANSPORT OF USER CONTROL DATA TO AUDIO DECODERS AND RENDERERS	FRAUNHOFER GESELLSCHAFT ZUR F-RDERUNG DER ANGEWANDTEN FORSCHUNG E.V.	24/03/2017	DELHI
239	432842	202117056105	03/06/2020	13/06/2019	POLYURETHANE DISPERSION	MITSUMI CHEMICALS, INC.	27/05/2022	DELHI
240	432845	202017038959	20/02/2019	21/02/2018	BIMODAL PRECIPITATED CALCIUM CARBONATE SLURRIES SUITABLE FOR PAPER AND BOARD APPLICATIONS, METHODS FOR MAKING THE SAME AND THEIR USES	IMERTECH SAS	02/10/2020	DELHI

## Publication Under Section 43(2) in Respect of the Grant

**Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed form-7 along with written statement and evidence, if any.**

Serial Number	Patent Number	Application Number	Date of Application	Date of Priority	Title of Invention	Name of Patentee	Date of Publication of Abstract u/s 11(A)	Appropriate Office
1	261384	1113/MUM/2005	15/12/2005		A FULLY AUTOMATIC WATER COOLED OSCILLATING GRATE SYSTEM FOR SOLID FUEL FIRED BOILERS	M/S TRANSPARENT ENERGY SYSTEMS PRIVATE LIMITED	29/06/2007	MUMBAI
2	285771	1391/MUM/2007	16/02/2004		A SYNERGISTIC ANTIBIOTIC FORMULATION	SANJEEV KHANDELWAL	27/03/2009	MUMBAI
3	432190	201727005917	07/09/2015	01/10/2014	WELDING UNIT	PLASSER & THEURER EXPORT VON BAHNBAUMASCHINENGESELLSCHAFT M.B.H.	05/05/2017	MUMBAI
4	432194	201621015918	06/05/2016 18:22:14		A WALKING AID SYSTEM FOR A PARKINSON <sup>TM</sup> S DISEASE AFFECTED PERSON	INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR	10/11/2017	MUMBAI
5	432200	850/MUM/2015	16/03/2015 14:06:34		Design and fabrication of lemon juice making Apparatus	G. H. R. Labs and Research Centre,G. H. Raisoni College of engineering.	23/09/2016	MUMBAI
6	432201	4041/MUM/2015	27/10/2015 12:49:21		MOBILE FRUIT PLUCKER	G. H. R. Labs and Research Centre,G. H. Raisoni College of engineering.	28/04/2017	MUMBAI
7	432203	2114/MUMNP/2011	11/03/2010	11/03/2009	METHODS AND SYSTEMS OF IMAGING CUT STONES	SARIN COLOR TECHNOLOGIES LTD.	16/11/2012	MUMBAI
8	432204	201621008466	10/03/2016 20:12:42		Development of Manual cum Battery Driven Tricycle	G. H. R. Labs and Research Centre,G. H. Raisoni College of engineering.	15/09/2017	MUMBAI
9	432216	1614/MUMNP/2015	14/03/2007	14/03/2006	APPARATUS AND METHOD FOR PERFORMING RESOURCE ALLOCATION AND COMMUNICATION IN A WIRELESS COMMUNICATION SYSTEM, AND SYSTEM USING THE SAME	SAMSUNG ELECTRONICS CO., LTD.	27/05/2016	MUMBAI

10	432222	202028021501	30/07/2014	31/07/2013	METHOD AND APPARATUS FOR TIME SYNCHRONIZATION IN DEVICE-TO-DEVICE COMMUNICATION	SAMSUNG ELECTRONICS CO., LTD.	11/09/2020	MUMBAI
11	432231	202221011509	03/03/2022 17:10:41		METHOD AND APPARATUS FOR PATTERNING 3D NANO-MICROSTRUCTURES OF SUB-WAVELENGTH RESOLUTION WITH TWO PHOTON LITHOGRAPHY	Indian Institute of Technology Bombay	18/03/2022	MUMBAI
12	432235	202127019994	03/10/2019	15/10/2018	A COSMETIC COMPOSITION	UNILEVER IP HOLDINGS B.V.,UNILEVER GLOBAL IP LIMITED,CONOPCO, INC., D/B/A UNILEVER	13/05/2022	MUMBAI
13	432237	201827037049	02/03/2017	02/03/2016	ORTHODONTIC SYSTEM WITH TOOTH MOVEMENT AND POSITION MEASURING MONITORING AND CONTROL	DROR ORTHO DESIGN LTD (AERODENTIS)	02/10/2020	MUMBAI
14	432247	201721003190	27/01/2017 22:03:08		COBWEB CLEANING BROOM WITH NON-ELECTRIC ROTATING HEAD FOR EFFECTIVE CLEANING	Sangeeta Sharma,Priyanka Verma,Nitesh Bharot,Vivek Sharma	03/08/2018	MUMBAI
15	432250	3905/MUM/2014	05/12/2014 15:54:58		Travelling of Drum by trolley with auto-lock system based on the conversion of gravitational energy into kinetic energy	Sandip University,Sandip foundations Sandip institute of engineering and management	10/06/2016	MUMBAI
16	432256	201727019674	28/01/2016	28/01/2015	RAN RULE AND CONDITION MATCH REPORTING FOR LTE WLAN INTERWORKING CONTROL AND MANAGEMENT	HFI INNOVATION INC.	04/08/2017	MUMBAI
17	432260	201927052440	22/05/2018	22/05/2017	IMAGE CONTRAST ENHANCEMENT FOR OPTICAL MICROSCOPY	LA TROBE UNIVERSITY	02/10/2020	MUMBAI
18	432269	201627041935	26/06/2015	30/06/2014	PROCESS ISOLATION DIAPHRAGM ASSEMBLY FOR METAL PROCESS SEAL	ROSEMOUNT INC,	02/10/2020	MUMBAI

19	432271	202021003641	27/01/2020 19:36:40		PHARMACEUTICAL COMPOSITION FOR REDUCING PROTEIN BOUND UREMIC TOXINS	Frimline Private Limited	30/07/2021	MUMBAI
20	432280	201927021175	03/11/2017	09/12/2016	SANITISING SYSTEM	Unilever Global IP Limited	02/10/2020	MUMBAI
21	432288	201827046701	13/07/2017	15/07/2016	A METHOD OF HANDLING OF PRIMARY CONTAINERS FOR PHARMACEUTICAL USE TRANSPORTED ALONG AUTOMATIC TREATMENT LINE	NUOVA OMPI S.R.L.	12/07/2019	MUMBAI
22	432297	202121029456	30/06/2021 18:52:54		A METHOD OF CONTINUOUS DYEING OF COTTON YARNS FOR MAKING FABRICS	Trendlines Yarns LLP	05/08/2022	MUMBAI
23	432301	202021044219	10/10/2020 18:39:22		A BOILER WITH AN ECONOMIZER	FORBES MARSHALL PRIVATE LIMITED	15/04/2022	MUMBAI
24	432302	201627039759	30/04/2015	30/04/2014	MEDICAL DEVICES WITH NON UNIFORM COATINGS FOR ENHANCED ECHOGENICITY	ENCAPSON B.V.	08/09/2017	MUMBAI
25	432303	202221020644	06/04/2022 14:45:41		NICKEL COBALT PHOSPHATE THIN- FILM ELECTRODES : CHEMICAL METHOD FOR PREPARATION OF THE SAME APPLICATION FOR SUPERCAPACITOR AND ELECTROCATALYSIS USING THE SAME.	D.Y. PATIL EDUCATION SOCIETY (DEEMED TO BE UNIVERSITY),KASAB A BAWADA,KOLHAPUR	15/07/2022	MUMBAI
26	432306	202121059139	18/12/2021 11:53:54		SYSTEM FOR DETECTION OF MILK ADULTERANTS USING SENSOR ARRAY	Dr Dinesh Madhukar Chandwadkar,Dr Sunita Aniruddha Patil,Apeksha Kasat,Saniya Sayyad,Amisha Panpatil	25/03/2022	MUMBAI
27	432307	1858/MUM/2014	06/06/2014 00:36:07		Dehydrated grain based fermented probiotic mix	Dr. Pratima Narayan Shastri,Sangeeta Devidas Bhojar	11/12/2015	MUMBAI
28	432309	201621011042	30/03/2016 16:07:49		ENCLOSURE FOR MULTIPLE CIRCUIT BREAKERS	SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED	10/11/2017	MUMBAI
29	432319	1116/MUM/2014	28/03/2014 12:27:28		ROTOR SHAFT ASSEMBLY FOR CIRCUIT BREAKER	SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED	13/11/2015	MUMBAI
30	432341	201827045476	01/06/2017	03/06/2016	BRAKING DEVICE	FRENI BREMBO S.P.A.	15/11/2019	MUMBAI

31	432345	202021035482	18/08/2020 13:35:42		OLFACTORY-ACTION METER FOR PRECISE QUANTIFICATION OF OLFACTORY DYSFUNCTIONS AND NEUROCOGNITIVE DEFICITS	Indian Institute of Science Education and Research	25/02/2022	MUMBAI
32	432350	1781/MUM/2015	05/05/2015 10:59:33		AN UNDERGARMENT FOR WOMEN THAT FACILITATES URINATION IN STANDING POSITION	JSR INNOVATIVE PRIVATE LIMITED	05/05/2017	MUMBAI
33	432363	202227008162	27/08/2020	30/08/2019	A METHOD OF TREATING A COATED CUTTING TOOL	AB SANDVIK COROMANT	01/07/2022	MUMBAI
34	432366	201827039655	07/04/2017	13/04/2016	VALVE NOZZLE AND VALVE NOZZLE ASSEMBLY	Kilter AS	02/10/2020	MUMBAI
35	432367	201627033924	31/03/2015	31/03/2014	CONGESTION MANAGEMENT FOR DOWNLINK QUEUES OF DIGITAL PROCESSING SATELLITES FOR DIFFERENTIATED QUALITY OF SERVICE (QOS)	HUGHES NETWORK SYSTEMS LLC	28/10/2016	MUMBAI
36	432368	201921015651	18/04/2019 19:13:45		PROCESS FOR PREPARATION OF FUNGICIDALLY ACTIVE STROBILURIN COMPOUNDS AND INTERMEDIATES THEREOF	UPL LIMITED	23/10/2020	MUMBAI
37	432369	201827046144	20/07/2017	29/07/2016	CLOSURE WITH TAMPER-EVIDENT BAND	GUALA PACK S.P.A.	12/07/2019	MUMBAI
38	432374	901/MUMNP/2013	25/10/2011	26/10/2010	SYSTEM AND METHOD FOR MACHINE BASED MEDICAL DIAGNOSTIC CODE IDENTIFICATION ACCUMULATION ANALYSIS AND AUTOMATIC CLAIM PROCESS ADJUDICATION	CAMPBELL Stanley Victor	27/06/2014	MUMBAI
39	432380	202121039223	30/08/2021 17:48:54		AN APPARATUS TO GENERATE LARGE PLASMA ARC PLUME FOR WASTE DISPOSAL AND THERMAL PROCESSING APPLICATIONS	INSTITUTE FOR PLASMA RESEARCH	15/10/2021	MUMBAI



40	432384	202127017740	28/10/2019	29/10/2018	PREPARATION OF 2-SUBSTITUTED 4-METHYL-TETRAHYDROPYRANS FROM 2-SUBSTITUTED 4-HYDROXY-4-METHYL-TETRAHYDROPYRANS AS STARTING MATERIALS	BASF SE	10/09/2021	MUMBAI
41	432387	202121025733	09/06/2021 19:50:40		AN ELECTRIC PLUG AND ITS METHOD OF UNPLUGGING	PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur	18/11/2022	MUMBAI
42	432401	202221037333	29/06/2022 17:34:26		A PEROVSKITE SOLAR CELLS MANUFACTURING METHOD AND MANUFACTURED ARTICLES THEREOF	Indian Institute of Technology Bombay	15/07/2022	MUMBAI
43	432406	1942/MUM/2015	18/05/2015 14:37:36		INTRAORAL ORTHODONTIC DEVICE FOR INTRUSION, EXTRUSION AND RETRACTION OF TOOTH/TEETH AND METHOD OF FABRICATING THE SAME	Narendra Shriram Sharma, Sharad Pawar Dental College and Hospital, Datta Meghe Institute of Medical Sciences (DU), Yeshwantrao Chavan College of Engineering	25/11/2016	MUMBAI
44	432412	202121062261	31/12/2021 20:05:24		A SYSTEM AND METHOD FOR UNUSUAL HUMAN ACTIVITY DETECTION IN CROWDED SCENES	GAWANDE, Ujwala, HAJARI, Kamal, GOLHAR, Yogesh	04/02/2022	MUMBAI
45	432426	202221037467	29/06/2022 21:03:43		A PHOTOVOLTAIC CONNECTOR WITH A CABLE HOLDING DEVICE	Indian Institute of Technology Bombay	05/08/2022	MUMBAI
46	432435	63/MUM/2015	07/01/2015 18:52:16		DESIGN SPACE EXPLORATION OF OPTIMAL KC-CYCLE TRANSIENT FAULT SECURED DATAPATH SYSTEM WITH INTELLIGENT CUT INSERTION	INDIAN INSTITUTE OF TECHNOLOGY, INDORE	05/06/2015	MUMBAI
47	432443	202221004520	27/01/2022 17:18:59		METHOD AND SYSTEM FOR LIVE-INTERACTIVE ONLINE SHOPPING	SMOOTH TAG TECHNOLOGIES PRIVATE LIMITED	10/06/2022	MUMBAI
48	432444	3692/MUM/2014	21/11/2014 12:12:05	03/12/2013	CLAMPING DEVICE FOR CLAMPING A THREAD ON A SPINDLE OF A SPINNING OR TWISTING MACHINE AND SPINNING OR TWISTING MACHINE	SAURER COMPONENTS GMBH	09/10/2015	MUMBAI

49	432446	202121017236	13/04/2021 17:54:29		PROCESS FOR FABRICATION OF LABORATORY SCALE MICRONEEDLES	Dr. Dinesh Kumar Mishra,Sainath Sahebrao Sindhikar,Dr. Pankaj V. Dixit,Dr. Sanjay Sharma,KU Nayany Sharma	23/04/2021	MUMBAI
50	432451	202221012285	07/03/2022 21:51:08		A SYSTEM FOR SMART RETAIL SHOPPING USING A WEARABLE BAND	Dr.Nagnath Hulle,Mrs. Sarika Khope,Dr.Prathiba B Reddy,Dr. Bharati Ainapure,Dr. Bhargav Appasani,Dr.R.D.Kharadkar,G H Raison College of Engineering and Management, Pune	20/05/2022	MUMBAI
51	432454	2903/MUM/2011	17/10/2011 16:07:43		MECHANISM FOR CONTROLLING MOBILITY IN NETWORK SHARING ENVIRONMENT	Xiaomi H.K. Limited	19/04/2013	MUMBAI
52	432455	1587/MUMNP/2014	27/03/2013	27/04/2012	VIBRATION DAMPER FOR SENSOR HOUSING	ROSEMOUNT INC.	08/05/2015	MUMBAI
53	432467	201721023465	04/07/2017 17:09:03		NOVEL COMPOSITION OF ENZALUTAMIDE ORAL DOSAGE FORM AND METHOD OF MANUFACTURING THEREOF•	BDR Pharmaceuticals International Pvt. Ltd.	06/10/2017	MUMBAI
54	432487	201921002330	19/01/2019 11:17:00		AN AUTOMATED HOLDING APPARATUS FOR SHEAR WEB(S)	INDUTCH COMPOSITE TECHNOLOGY PVT. LTD.	24/07/2020	MUMBAI
55	432489	3608/MUMNP/2015	22/07/2014	22/07/2013	ADJUSTABLE SUPER FINE CRUSHER	IMP TECHNOLOGIES PTY. LTD.	15/07/2016	MUMBAI
56	432492	202021053595	09/12/2020 18:35:54		AUTO FLOOD IRRIGATION DEVICE	Ajay Solanki Sirvi	17/12/2021	MUMBAI
57	432495	201921014894	12/04/2019 19:14:58		SYSTEM AND METHOD FOR BIOREMEDIATION OF POLLUTANTS	Tata Consultancy Services Limited	16/10/2020	MUMBAI
58	432505	201927038026	27/02/2018	01/03/2017	FIRE-RETARDANT POLYAMIDES COMPRISING PVP	BASF SE	20/12/2019	MUMBAI
59	432532	201827014142	14/10/2016	16/10/2015	ROBOTIC SURGICAL ASSEMBLY	MEDICAL MICROINSTRUMENT S INC.	29/06/2018	MUMBAI
60	432535	1597/MUM/2014	08/05/2014 17:13:56		APPRENTICE SPIROMETER	DR. PRASHANT RAJDEEP	27/11/2015	MUMBAI

61	432542	202221027003	10/05/2022 19:19:39		SHAPE MEMORY ALLOY (SMA) ACTUATION SYSTEM FOR ACTIVE REAR WING (ARW) OF A PERFORMANCE CAR	Rahul Ashok Gujar, Amey Ravindra Thonge, Viren Satyajit Chiplunkar, Abhir Arun Adiverekar, Rahul Sachin Kulkarni, Amrita Francis, Vikram K. Aher	30/09/2022	MUMBAI
62	432549	202021005274	06/02/2020 17:55:20		ENERGY BEAM LAMINATED MANUFACTURING	INDIAN INSTITUTE OF TECHNOLOGY BOMBAY	13/08/2021	MUMBAI
63	432571	2201/MUMNP/2015	15/01/2014	17/01/2013	PORTABLE TERMINAL AND METHOD FOR PROVIDING HAPTIC EFFECT TO INPUT UNIT	SAMSUNG ELECTRONICS CO. LTD.	27/05/2016	MUMBAI
64	432574	201727025656	22/01/2015	22/01/2015	PROGRAMMABLE LOGIC CONTROLLER SETTING FILE GENERATION ASSISTANCE DEVICE	MITSUBISHI ELECTRIC CORPORATION	10/11/2017	MUMBAI
65	432581	201621026847	05/08/2016 18:45:49		A SAFETY HOUSING BASED INJECTING SYSTEM	BHARAT SERUMS AND VACCINES LTD	16/09/2016	MUMBAI
66	432591	201921050176	05/12/2019 16:42:20		EMISSION TREATMENT SYSTEM FOR TREATING AN EXHAUST STREAM FROM AN ENGINE	TATA MOTORS LIMITED, TATA MOTORS EUROPEAN TECHNICAL CENTRE Plc	11/06/2021	MUMBAI
67	432592	201627011199	02/10/2014	10/10/2013	DISPLAYING DCI AND OTHER CONTENT ON AN ENHANCED DYNAMIC RANGE PROJECTOR	DOLBY LABORATORIES LICENSING CORPORATION	17/06/2016	MUMBAI
68	432595	201627012372	21/10/2014	21/10/2013	DECORRELATOR STRUCTURE FOR PARAMETRIC RECONSTRUCTION OF AUDIO SIGNALS	DOLBY INTERNATIONAL AB	24/06/2016	MUMBAI
69	432600	4706/MUM/2015	15/12/2015 17:05:39	19/12/2014	METHOD AND DEVICE FOR LOCAL STABILIZATION OF A RADIATION SPOT ON A REMOTE TARGET OBJECT	MBDA DEUTSCHLAND GMBH	26/08/2016	MUMBAI
70	432606	2702/MUM/2013	19/08/2013 15:44:15	26/02/2013	LUNG BIOPSY NEEDLE	SPIRATION, INC	26/06/2015	MUMBAI
71	432611	201827021165	12/07/2016	09/12/2015	REFILLABLE CONTAINER	NIPPON PAPER INDUSTRIES CO., LTD.	22/03/2019	MUMBAI
72	432619	746/MUM/2014	05/03/2014 10:20:51		REMOTE FUNCTION CONTROLLER FOR ELECTRIC FAN	Abhijit A Athawale	18/04/2014	MUMBAI

73	432623	2255/MUMNP/2013	31/05/2012	03/06/2011	METHOD AND SYSTEM FOR TUNING OF MOVEMENT DISORDER THERAPY DEVICES	GREAT LAKES NEUROTECHNOLOGIES INC.	10/10/2014	MUMBAI
74	432626	202021001773	15/01/2020 12:53:03		ORGANIC AND NATURAL NUTRITIONAL SUPPLEMENT COMPOSITION	MRS. CHITRALEKHA MAHADEORAO MAGAR	14/02/2020	MUMBAI
75	432629	201627007712	06/10/2014	29/10/2013	MAGNESIUM HYDROXIDE FIRE RETARDANT NANOPARTICLES AND PRODUCTION METHOD THEREOF	JOINT STOCK COMPANY KAUSTIK	22/07/2016	MUMBAI
76	432656	102/MUM/2015	12/01/2015 11:22:33		LIQUID FORMULATIONS OF CABAZITAXEL	EMCURE PHARMACEUTICALS LIMITED	15/07/2016	MUMBAI
77	432667	2035/MUMNP/2013	29/09/2011	15/07/2011	METHOD OF SCRAMBLING SIGNALS TRANSMISSION POINT DEVICE AND USER EQUIPMENT USING THE METHOD	SUN PATENT TRUST	26/09/2014	MUMBAI
78	432670	3868/MUM/2015	12/10/2015 19:30:06		ELECTRONICALLY CONTROLLED SYSTEM AND A METHOD THEREOF FOR A VERTICAL SHAFT IMPACT CRUSHER.	KALANI JUGALKISHORE KUNJILAL	14/04/2017	MUMBAI
79	432677	4063/MUM/2014	17/12/2014 17:38:48	08/07/2014	ASSESSING AN INFORMATION SECURITY GOVERNANCE OF AN ENTERPRISE	TATA CONSULTANCY SERVICES LIMITED	15/01/2016	MUMBAI
80	432680	1075/MUM/2015	27/03/2015 16:22:16	20/05/2014	FIREWALL TRAVERSAL FOR WEB REAL-TIME COMMUNICATIONS	AVAYA, INC	06/05/2016	MUMBAI
81	432688	201827016665	25/08/2016	05/10/2015	AN ELECTRICAL ENERGY GENERATOR ARRAY, METHOD OF MAKING THE SAME AND A METHOD OF GENERATING ELECTRICITY	COMAN Christopher John Anthony	26/10/2018	MUMBAI
82	432692	1215/MUM/2014	29/03/2014 20:03:41		A BACKING MECHANISM IN TRIP SYSTEM	SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED	02/10/2015	MUMBAI

83	432694	1287/MUM/2013	02/04/2013 19:21:35		A COMPOSITION OF LIPOPHILIC ACTIVES USING DIETHYLENE GLYCOL MONOETHYL ETHER AND LIKE AS A SOLVENT•	Themis Medicare Limited	29/05/2015	MUMBAI
84	432697	202121037885	20/08/2021 20:18:19		PULSATILE DRUG DELIVERY SYSTEM OF LEFLUNOMIDE FOR THE CHRONOTHERAPY OF ARTHRITIS	Shah Jigar Nareshkumar,Chothani Priti Bipinbhai	09/09/2022	MUMBAI
85	432704	202127045897	06/03/2020	20/03/2019	ALUMINUM ALLOY AND ALUMINUM ALLOY DIE CASTING MATERIAL	NIPPON LIGHT METAL COMPANY, LTD.,NIKKEI MC ALUMINIUM CO., LTD.	28/01/2022	MUMBAI
86	432706	202027023664	10/01/2018	27/11/2017	WET STACK GUIDE VANE HAVING A CONDENSATE COLLECTOR	HADEK PROTECTIVE SYSTEMS B.V.	02/10/2020	MUMBAI
87	432718	202127029570	20/09/2019	13/12/2018	METHOD AND DEVICE FOR DETERMINING INDEX OF ORTHOGONAL BASIS VECTOR	VIVO MOBILE COMMUNICATION CO.,LTD.	23/07/2021	MUMBAI
88	432735	201821013462	09/04/2018 15:55:08		MONITORING VEHICULAR POLLUTION BY USING EMBEDDED SYSTEM	DR. NITIN K DHOTE,NAGRAJ GAJANAN BONGIRWAR,SHUBH AM URKUDE,MURLI GHODE,KRUNAL TOTE,PANKAJ MEHAR,KOMAL WASADE	11/05/2018	MUMBAI
89	432736	201621010412	27/03/2016 16:54:02		AN IMPROVED ASSEMBLY OF THERMO-MAGNETIC RELEASE IN MOULDED CASE CIRCUIT BREAKERS	SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED	13/05/2016	MUMBAI
90	432746	3116/MUM/2014	30/09/2014 14:55:22		DEVICE FOR LEAK TESTING OF PROFILED APERTURES IN HOLLOW CAST METALLIC BODIES	MAHINDRA & MAHINDRA LIMITED	08/04/2016	MUMBAI
91	432751	201821003139	26/01/2018 18:53:17		A FIRE EXTINGUISHING APPARATUS	DEEPAK PRADHAN,ASHUTOSH MANGAL	02/08/2019	MUMBAI
92	432765	202121018344	21/04/2021 12:32:02		PURIFICATION OF IMPOTABLE AND WASTE WATER	Sonage Basgonda Kallappa	07/05/2021	MUMBAI

93	432769	202221060598	22/10/2022 19:13:12		POWER EFFICIENT HYDROGEN LIQUEFACTION SYSTEM AND PROCESS THEREOF USING GREEN TECHNOLOGY	Brise Chemicals Private Limited	28/10/2022	MUMBAI
94	432776	201627001895	21/07/2014	19/07/2013	HIERARCHICAL MOTION ESTIMATION METHOD AND APPARATUS BASED ON ADAPTIVE SAMPLING	SAMSUNG ELECTRONICS CO. LTD.	22/07/2016	MUMBAI
95	432777	857/MUM/2013	20/03/2013 10:46:10		A PUSH TO TRIP ASSEMBLY FOR MANUAL TRIPPING OF CIRCUIT BREAKERS.	Schneider Electric India Private Limited	30/01/2015	MUMBAI
96	432778	201628006235	28/06/2012	28/06/2011	METHOD FOR IMAGE INTERPOLATION USING ASYMMETRIC INTERPOLATION FILTER AND APPARATUS THEREFOR	SAMSUNG ELECTRONICS CO., LTD.	22/07/2016	MUMBAI
97	432779	201727039833	18/05/2016	21/05/2015	SYSTEM AND METHOD OF UNIQUE IDENTIFYING A GEMSTONE	SARINE COLOR TECHNOLOGIES LTD.	08/12/2017	MUMBAI
98	432790	1299/MUM/2013	03/05/2013		DEVICE FOR REDIRECTING HEAT ENERGY AND COOKWARE AUGMENTED WITH THE SAME	Eagle Consumer Products Private Limited	19/06/2015	MUMBAI
99	432793	201927036105	23/03/2018	23/03/2017	METHOD FOR TRANSMITTING OR RECEIVING SIGNAL BETWEEN TERMINAL AND BASE STATION IN WIRELESS COMMUNICATION SYSTEM AND DEVICE SUPPORTING SAME	LG ELECTRONICS INC.	20/12/2019	MUMBAI
100	432798	202121054868	26/11/2021 20:18:31		COMPOSITE MICRONUTRIENT NANO FERTILIZER	MAHATMA EDUCATION SOCIETY <sup>TM</sup> S, PILLAI COLLEGE OF ARTS, COMMERCE AND SCIENCE (AUTONOMOUS)	17/12/2021	MUMBAI
101	432800	201827029351	29/03/2016	29/03/2016	HIGH-SLIDABILITY SYRINGE	COKI ENGINEERING INC.	26/10/2018	MUMBAI

102	432807	202027000289	03/07/2018	03/07/2017	OVER-ACTUATED HYSTERETIC SYSTEMS AND METHODS FOR CONTROL OF SAME	EINDHOVEN MEDICAL ROBOTICS B.V.	02/10/2020	MUMBAI
103	432809	202021036867	27/08/2020 12:42:21		SYSTEM FOR NEUTRAL ISOLATION IN AN ELECTRONIC TRIP UNIT	Schneider Electric India Private Limited	04/03/2022	MUMBAI
104	432812	202121022567	20/05/2021 16:37:12		AN ADDITIVE COMPOSITION AS A COMBUSTION IMPROVER FOR LIQUID AND GASEOUS FUELS	Indian Oil Corporation Limited	25/11/2022	MUMBAI
105	432828	201721010559	24/03/2017 20:46:27		INTERCHANGABLE EXPANDABLE INTERFACE EXTENSION DEVICE (IEIED) COMPATIBLE WITH TYPE-C-CONNECTOR	KUNJAN DALAL	28/09/2018	MUMBAI
106	432831	201727030354	28/01/2016	28/01/2015	ANTI TRANSTHYRETIN ANTIBODIES	PROTHENA BIOSCIENCES LIMITED,UNIVERSITY HEALTH NETWORK	10/11/2017	MUMBAI
107	432841	202027048901	12/06/2019	21/06/2018	PERSONAL CLEANSING COMPOSITION	Unilever Global IP Limited	27/05/2022	MUMBAI
108	432844	202121046356	11/10/2021 22:50:19		A PROCESS TO PREPARE A SWAPPABLE ANTISKID FILM PAVER BLOCK	Gaurav Gyanendra Mishra,Akash Surendra Yadav,Pankaj Kishor Mahale,Sneha Satish Musale,Dr. Shilpa Pankaj Kewate	29/10/2021	MUMBAI
109	432851	2735/MUM/2013	21/08/2013 18:53:22		SELECTIVE RETRIEVAL OF THORIUM (IV) AND URANIUM (VI) IONS USING ECO-FRIENDLY CELLULOSE COMPOSITE	Defence Institute of Advanced Technology (DEEMED UNIVERSITY)	10/07/2015	MUMBAI

## Publication Under Section 43(2) in Respect of the Grant

**Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed form-7 along with written statement and evidence, if any.**

Serial Number	Patent Number	Application Number	Date of Application	Date of Priority	Title of Invention	Name of Patentee	Date of Publication of Abstract u/s 11(A)	Appropriate Office
1	350581	201847039188	15/03/2017	15/04/2016	CORNFIELD HERBICIDAL COMPOSITION	QINGDAO KINGAGROOT RESISTANT WEED MANAGEMENT CO., LTD.	26/10/2018	CHENNAI
2	350582	5043/CHENP/2013	20/01/2012	21/01/2011	A PROCESS FOR PACKAGING A PRODUCT IN A SEALED WRAPPER OF SHEET MATERIAL	SOREMARTEC S.A.	11/07/2014	CHENNAI
3	432183	202141031740	14/07/2021 21:22:52		THIOUREA SUBSTITUTED ISATIN SULPHONAMIDES AS ANTI-TUBERCULAR AGENTS	S.SOUNDARYA,Dr.A.J ERAD SURESH	03/12/2021	CHENNAI
4	432184	201841043605	20/11/2018 13:39:00		ELECTRICAL CONNECTOR WITH INTEGRATED CPA	TE CONNECTIVITY INDIA PRIVATE LIMITED	22/05/2020	CHENNAI
5	432187	202147045187	12/03/2020	14/03/2019	LED FILAMENT ARRANGEMENT	SIGNIFY HOLDING B.V.	22/10/2021	CHENNAI
6	432188	202241015602	21/03/2022 21:20:08		PRESSURE SENSITIVE ADHESIVE TAPE BASED FLEXIBLE STRAIN SENSOR AND METHOD OF PREPARATION THEREOF	INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS)	25/03/2022	CHENNAI
7	432189	3747/CHENP/2014	18/08/2009	18/08/2008	DIVIDE-BY-THREE QUADRATURE FREQUENCY DIVIDER	Qualcomm Incorporated	25/09/2015	CHENNAI
8	432192	201841023197	21/06/2018 16:17:56		METHOD AND DEVICE FOR CALCULATING WINDING CURRENTS AT DELTA SIDE FOR A TRANSFORMER	Hitachi Energy Switzerland AG	27/12/2019	CHENNAI
9	432195	201747032411	02/02/2016	30/03/2015	CONTROL CENTER	mitsubishi electric CORPORATION	22/09/2017	CHENNAI
10	432197	201747040687	21/05/2015	21/05/2015	MOTOR CONTROL DEVICE AND MOTOR CONTROL METHOD	NISSAN MOTOR CO., LTD.	24/11/2017	CHENNAI



11	432205	201741008942	15/03/2017 17:30:17		DSRC based method and system for automatically charging fee•	Samsung Electronics Co., Ltd	21/09/2018	CHENNAI
12	432209	202141030041	25/08/2021		MICROFLUIDIC PLATFORM FOR THREE-DIMENSIONAL CELL CULTURE AND MULTI-DRUG TESTING AND METHODS OF FABRICATION THEREOF	INDIAN INSTITUTE OF TECHNOLOGY HYDERABAD	02/09/2022	CHENNAI
13	432212	425/CHE/2014	30/01/2014 15:46:43		MULTIFUNCTION CONNECTOR POSITIONING ASSURANCE DEVICE	TE CONNECTIVITY INDIA PRIVATE LIMITED	01/07/2016	CHENNAI
14	432213	2981/CHE/2013	04/07/2013		MOTORCYCLE	TVS MOTOR COMPANY LIMITED	31/08/2016	CHENNAI
15	432219	3498/CHENP/2015	12/12/2013	20/12/2012	MID CYCLE FUEL INJECTION STRATEGIES	Westport Fuel Systems Canada Inc.	01/07/2016	CHENNAI
16	432220	201947014662	13/09/2017	13/09/2016	PROXIMITY-BASED DEVICE AUTHENTICATION	SAMSUNG ELECTRONICS CO., LTD.	17/05/2019	CHENNAI
17	432224	201741014919	27/04/2017 15:55:14		DIRECT TORQUE TRANSMISSION MECHANISM FOR ROTARY APPLICATION	Mr, Abhinav Ray Baruah, Mr. Sikhar Modi, Mr. Anish Deva, Mr. Parth Mannan, Dr. Davidson Jebaseelan D, Dr. Arockia Selvakumar A	05/05/2017	CHENNAI
18	432225	202141042031	17/09/2021 12:47:17		Piezoelectric Titanium Carbide-MXene, method of preparation and applications thereof	Indian Institute of Science	16/09/2022	CHENNAI
19	432230	201841028415	27/07/2018 23:06:08		OPTIMIZED DNS RESOLUTION AND CONTROL MESSAGE EXCHANGE PRIOR TO MULTI-PATHING	SAMSUNG ELECTRONICS CO., LTD.	31/01/2020	CHENNAI
20	432236	8953/CHENP/2013	10/05/2012	10/05/2011	FLUID CONDUIT	Magma Global Limited, SALUNDA LIMITED	24/06/2016	CHENNAI
21	432238	950/CHENP/2014	10/07/2012	11/07/2011	INPUT DEVICE	SAMSUNG ELECTRONICS CO. LTD.	01/07/2016	CHENNAI
22	432242	201747032537	15/03/2016	17/03/2015	COMPOSITIONS AND METHODS FOR DIAGNOSIS AND TREATMENT OF CANCER	BIONTECH AG	22/09/2017	CHENNAI

23	432243	201841023580	25/06/2018 16:18:01		SYSTEM AND METHOD FOR REINFORCING POWDER PARTICLES USING FRICTION STIR PROCESSING	ADEPU KUMAR, PARUMANDL A NARESH	06/07/2018	CHENNAI
24	432249	2049/CHENP/2013	29/09/2011	12/10/2010	DECODING INSTRUCTIONS FROM MULTIPLE INSTRUCTION SETS	ARM LIMITED	07/11/2014	CHENNAI
25	432255	202247059696	19/03/2021	24/03/2020	SUSPENSION PROCESS FOR PREPARING ETHYLENE POLYMERS COMPRISING WORKUP OF THE SUSPENSION MEDIUM	BASELL POLYOLEFINE GMBH	28/10/2022	CHENNAI
26	432263	202041003928	29/01/2020 15:46:47		CURVED BIFID TIP CORTICOTOME WITH SHARP CUTTING EDGES (CBTC)	SREE BALAJI MEDICAL COLLEGE & HOSPITAL BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH	12/02/2021	CHENNAI
27	432268	5334/CHE/2014	27/10/2014 15:28:22	30/10/2013	INJECTOR, ESPECIALLY INJECTION-VALVE, FOR DIRECT-INJECTION	ROBERT BOSCH GmbH	01/07/2016	CHENNAI
28	432270	202048029213	13/07/2015	06/08/2014	CIGARETTE PACKAGE	FOCKE & CO. (GMBH CO. KG)	14/08/2020	CHENNAI
29	432275	201644000441	06/01/2016 13:45:37	07/01/2015	SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	GENERAL ELECTRIC COMPANY	31/08/2016	CHENNAI
30	432278	6636/CHENP/2015	22/05/2014	22/05/2013	FAN HOLDER FOR A FAN IN PARTICULAR OF A SWITCH CABINET	STEGO HOLDING GMBH	31/08/2016	CHENNAI
31	432279	201847017506	30/12/2016	30/12/2015	SYSTEM AND METHOD FOR REDUCING INTERFERENCE FROM NEIGHBORING WIRELESS DEVICES	QUALCOMM Incorporated	18/05/2018	CHENNAI
32	432283	202047029512	11/12/2018	15/12/2017	COMPOSITION AND METHOD FOR CONFERRING AND/OR ENHANCING TOLERANCE AGAINST HERBICIDES BY USING VARIANTS OF PPO	FARMHANNONG CO., LTD.	07/08/2020	CHENNAI
33	432285	5053/CHENP/2015	16/01/2014	28/01/2013	SHAVING OR HAIR TRIMMING DEVICE	KONINKLIJKE PHILIPS N.V.	01/07/2016	CHENNAI

34	432286	201644043040	16/12/2016 17:59:39	24/12/2015	WIRELESS ACCESS POINT WITH TWO RADIO FREQUENCY MODULES OF SAME FREQUENCY BAND AND SIGNAL INTERFERENCE REDUCTION METHOD	HUAWEI TECHNOLOGIES CO., LTD.	30/06/2017	CHENNAI
35	432289	201847046604	28/06/2016	28/06/2016	WIRELESS BASE STATION DEVICE AND WIRELESS COMMUNICATION METHOD	MITSUBISHI ELECTRIC CORPORATION	21/12/2018	CHENNAI
36	432293	201744005252	14/02/2017 17:42:10	17/02/2016	WATER AND LAND-BASED MODULAR SYSTEM FOR ENVIRONMENTALLY VERSATILE HOUSING, SHELTER AND COMMERCIAL USE	Charles I. Wee	18/08/2017	CHENNAI
37	432294	201847038786	30/03/2017	31/03/2016	METHOD FOR PRODUCING PROTEIN	TORAY INDUSTRIES, INC.	19/10/2018	CHENNAI
38	432299	201741023647	05/07/2017 17:16:03		METHOD AND SYSTEM FOR PROCESSING DATA IN AN INTERNET OF THINGS (IOT) ENVIRONMENT	WIPRO LIMITED	11/01/2019	CHENNAI
39	432304	5739/CHE/2014	14/11/2014 13:59:34		ENHANCEMENT OF HEAT TRANSFER DURING THE SOLIDIFICATION OF PCM FOR FREE COOLING APPLICATIONS	HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE, DR. G. RAVIKUMAR SOLOMON	26/08/2016	CHENNAI
40	432310	202147011857	16/09/2019	14/09/2018	PARTIALLY TRANSPARENT DISPOSABLE PIPING BAG	ONE WAY PLASTICS B.V.	26/03/2021	CHENNAI
41	432313	202241062967	03/11/2022 22:11:59		A PILLOW FOR PERFORMING ROLL MANEUVER	MICHAEL STRUPP, CHRISTOF STOCKER, CHRISTOPH SCH-GGLER, DR ANITA BHANDARI, RAJNEESH BHANDARI	18/11/2022	CHENNAI
42	432317	202047018734	29/11/2018	30/11/2017	PROCESS AND DEVICE FOR PREPARING A SOLID DISPERSION	BIT PHARMA GMBH	12/06/2020	CHENNAI
43	432323	1260/CHE/2015	13/03/2015 16:52:10	19/03/2014	MOTORCYCLE	HONDA MOTOR CO., LTD.	01/07/2016	CHENNAI
44	432327	3973/CHE/2015	31/01/2016		A NOVEL BIOMARKER FOR DETECTION OF PULMONARY AND EXTRA-PULMONARY TUBERCULOSIS	Sharmistha Banerjee, Mani Harika Vemula, Sumanlatha Gaddam, Ramya Sivangala	30/04/2021	CHENNAI

45	432330	4897/CHE/2015	15/09/2015 12:59:23	17/09/2014	APPARATUS, SYSTEM AND METHOD FOR WIRELESS DATA TRANSMISSION BY USING DISPLAY BACKLIGHT	SCHNEIDER ELECTRIC INDUSTRIES SAS	01/07/2016	CHENNAI
46	432331	1467/CHE/2012	12/04/2012 14:28:16	18/04/2011	AUTOMATION CONTROLLER FOR NEXT GENERATION TESTING SYSTEM	Accenture Global Services Limited	01/04/2016	CHENNAI
47	432333	202047003485	13/06/2018	29/06/2017	HINGE AND METHOD FOR OPENING AND CLOSING A HINGE	HETTICH-ONI GMBH & CO. KG	07/02/2020	CHENNAI
48	432335	390/CHENP/2014	25/07/2012	25/07/2011	MANAGING HANDOFF TRIGGERING BETWEEN UNICAST AND MULTICAST SERVICES	QUALCOMM INCORPORATED	24/06/2016	CHENNAI
49	432337	5574/CHE/2014	05/11/2014 17:34:34		EVALUATING RESERVOIR OIL BIODEGRADATION	PRAD Research and Development Limited	01/07/2016	CHENNAI
50	432338	201647038257	28/04/2015	09/05/2014	ADJUSTMENT DRIVE AND HAIR CUTTING APPLIANCE	KONINKLIJKE PHILIPS N.V.	27/01/2017	CHENNAI
51	432339	202241051800	10/09/2022 22:46:02		A SYSTEM AND A METHOD FOR JEWELS/ PRECIOUS SOLID METALS/ ORNAMENTS/ PRECIOUS STONE™S ANALYZING AND LOAN LENDING AUTOMATED TELLER MACHINE	RAJALAKSHMI SUBRAMANIAN, VIJAY RAJAGOPALAN	23/09/2022	CHENNAI
52	432342	1331/CHE/2014	13/03/2014 15:02:11		METHODS FOR DYNAMIC DESTRUCTION OF DATA IN A REMOTE DATA STORAGE PLATFORM AND DEVICES THEREOF	INFOSYS LIMITED	18/09/2015	CHENNAI
53	432349	2825/CHENP/2014	24/10/2012	28/10/2011	DEAD RECKONING USING PROXIMITY SENSORS	QUALCOMM INCORPORATED	03/07/2015	CHENNAI
54	432353	202047055021	04/06/2019	04/06/2018	FERTILIZER COATING METHOD	PURSELL AGRI-TECH, LLC, HUNTSMAN INTERNATIONAL LLC	25/12/2020	CHENNAI
55	432358	6261/CHENP/2014	24/01/2013	26/01/2012	CLIP FOR USE IN A DISC BRAKE ASSEMBLY AND DISC BRAKE ASSEMBLY INCLUDING SUCH A CLIP	KELSEY-HAYES COMPANY	01/07/2016	CHENNAI

56	432359	201847021938	12/11/2015	12/11/2015	A method of obtaining KPI for a communication session of a radio device	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	22/06/2018	CHENNAI
57	432360	6882/CHENP/2015	10/06/2014	11/06/2013	LTE/LTE A UPLINK CARRIER AGGREGATION USING UNLICENSED SPECTRUM	QUALCOMM INCORPORATED	31/08/2016	CHENNAI
58	432361	201847044521	18/05/2016	18/05/2016	COIL POSITION DETECTION METHOD FOR NON-CONTACT POWER SUPPLY SYSTEM AND POWER RECEPTION DEVICE	NISSAN MOTOR CO., LTD.	14/12/2018	CHENNAI
59	432362	9488/CHENP/2012	12/08/2011	17/08/2010	DEVICE FOR DETERMINING AND/OR MONITORING FOREIGN STRUCTURES IN A FLUID OR IN A FLUID STREAM AND METHOD FOR DOING SAME	FRESENIUS MEDICAL CARE DEUTSCHLAND GMBH	02/05/2014	CHENNAI
60	432365	201848041558	21/08/2009	08/10/2008	FIELD REMOVABLE BONNET ASSEMBLY	EMERSON PROCESS MANAGEMENT REGULATOR TECHNOLOGIES, INC.	16/11/2018	CHENNAI
61	432370	5976/CHE/2014	28/11/2014 16:11:33		A METHOD OF CONTROLLING EGR VALVE IN AN EGR SYSTEM	Bosch Limited,Robert Bosch GmbH	01/07/2016	CHENNAI
62	432373	202047033167	05/02/2019	05/02/2018	ALKYLENE OXIDE SEPARATION SYSTEM	LYONDELL CHEMICAL TECHNOLOGY, L.P.	18/09/2020	CHENNAI
63	432375	202147000044	25/07/2019	01/10/2018	HALIDE SOLID ELECTROLYTE MATERIAL AND BATTERY USING THIS	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.	26/02/2021	CHENNAI
64	432378	10018/CHENP/2013	01/08/2011	28/06/2011	DISTRIBUTED POSITIONING MECHANISM FOR WIRELESS COMMUNICATION DEVICES	QUALCOMM INCORPORATED	24/06/2016	CHENNAI
65	432383	202041035980	20/08/2020 20:47:56		A METHOD FOR PREDICTING KIDS HEALTH AND LIFESTYLE RECOMMENDATION	IGN BIOTECH PRIVATE LIMITED	25/02/2022	CHENNAI
66	432390	1350/CHE/2015	19/03/2015		DATA RECOVERY CARD (DRC) SIMULATOR	SLRDC, HAL AVIONICS DIVISION	30/09/2016	CHENNAI

67	432391	201847047808	10/05/2017	24/05/2016	A REGISTER, A PROCESSING MACHINE AND A METHOD FOR PLACING PLATE-LIKE ELEMENTS	BOBST MEX SA	22/02/2019	CHENNAI
68	432392	202147027067	07/11/2019	22/11/2018	A PROCESS FOR THE SYNTHESIS OF UREA	CASALE SA	02/07/2021	CHENNAI
69	432396	201647021173	11/12/2014	11/12/2013	SYSTEM AND METHOD FOR MEASURING A PULSE WAVE OF A SUBJECT	KONINKLIJKE PHILIPS N.V.	31/08/2016	CHENNAI
70	432397	201847045785	23/05/2017	23/05/2016	DUAL-SHAFT SHREDDER HAVING A QUICK-CHANGE DEVICE	LINDNER, Manuel	22/02/2019	CHENNAI
71	432400	202047019244	07/11/2018	10/11/2017	TRANSFORMER FOR USE IN A RAIL VEHICLE	HITACHI ENERGY SWITZERLAND AG	07/08/2020	CHENNAI
72	432402	202047014699	07/09/2018	11/09/2017	LIGHTING DEVICE	SIGNIFY HOLDING B.V.	15/05/2020	CHENNAI
73	432403	201747041087	18/01/2016	20/04/2015	VEHICLE SUSPENSION STRUCTURE	FOMM CORPORATION	24/11/2017	CHENNAI
74	432407	201647020796	24/11/2014	22/11/2013	POLY-AXIAL PEDICLE SCREW ASSEMBLY AND PACKAGING THEREFOR	SPINAL BALANCE INC.	31/08/2016	CHENNAI
75	432408	201641030412	06/09/2016 18:02:52		METHOD AND VR APPARATUS FOR MANAGING VR CONTENT	Samsung Electronics Co., Ltd.	09/03/2018	CHENNAI
76	432409	5357/CHE/2013	20/11/2013		A HOLDER ASSEMBLY FOR A LIGHTING SYSTEM, A METHOD OF ASSEMBLING AND A LIGHTING SYSTEM COMPRISING THE HOLDER ASSEMBLY	WIPRO ENTERPRISES LIMITED	04/09/2015	CHENNAI
77	432410	202041054332	14/12/2020 17:22:00		NUCLEOTIDE SEQUENCE, EXPRESSION VECTORS, RECOMBINANT YEAST CELLS AND APPLICATIONS THEREOF	INDIAN INSTITUTE OF SCIENCE	17/06/2022	CHENNAI
78	432417	201747004280	15/09/2015	16/09/2014	EVENT BASED DOWN SAMPLING	QUALCOMM Incorporated,	26/05/2017	CHENNAI
79	432418	8710/CHENP/2014	12/06/2013	21/06/2012	OFFLOADING VIRTUAL MACHINE FLOWS TO PHYSICAL QUEUES	MICROSOFT TECHNOLOGY LICENSING, LLC	26/08/2016	CHENNAI

80	432420	202241031523	01/06/2022 19:29:20		AN ANTENNA SYSTEM FOR VEHICULAR COMMUNICATION	Indian Institute of Science	15/07/2022	CHENNAI
81	432421	201947041127	19/03/2018	17/03/2017	SPRAY DEVICE AND METHODS FOR MAKING THE SAME	SILGAN DISPENSING SYSTEMS CORPORATION	18/10/2019	CHENNAI
82	432422	202241062401	01/11/2022 20:13:53		A CHEMICAL SOLUTION DEPOSITION SYSTEM AND METHOD FOR PRACTICAL DEVICE APPLICATIONS	Waseem Ahmad Wani,Kannan Ramaswamy,B. Harihara Venkataraman	18/11/2022	CHENNAI
83	432424	202241016765	24/03/2022 19:51:02		DR LAL™S CARVER	Dr. MARIACHELLIAHNADAR SINGARAYAN JAISH LAL,Dr. M.S. ABIJAH JAISH LAL	01/07/2022	CHENNAI
84	432425	201944014212	09/04/2019 11:41:39	16/04/2018	LIGHT DEVICE FOR SADDLE RIDING VEHICLE	HONDA MOTOR CO., LTD.	06/12/2019	CHENNAI
85	432428	201644013205	15/04/2016 12:51:26	18/04/2015	INTERNAL GEAR PUMP AND VEHICLE HAVING AN INTERNAL GEAR PUMP	MAN Truck & Bus AG	21/10/2016	CHENNAI
86	432429	884/CHE/2015	24/02/2015 20:29:10		CONFIGURABLE PACKAGING MACHINE	ITC LIMITED	26/08/2016	CHENNAI
87	432430	983/CHE/2015	28/02/2015 16:29:26		BANDING MACHINE	ITC LIMITED	31/08/2016	CHENNAI
88	432431	5340/CHENP/2014	12/12/2012	12/12/2011	TRANSDERMAL DELIVERY SYSTEM COMPRISING BUPRENORPHINE	LTS LOHMANN THERAPIE-SYSTEME AG	26/02/2016	CHENNAI
89	432432	201847005933	16/08/2016	18/08/2015	REGULATOR	DELPHI TECHNOLOGIES IP LIMITED	02/03/2018	CHENNAI
90	432437	202047055118	17/05/2019	18/05/2018	CONFIGURABLE LINEAR ACCELERATOR TRIGGER DISTRIBUTION SYSTEM AND METHOD	VAREX IMAGING CORPORATION	25/12/2020	CHENNAI
91	432438	4193/CHENP/2015	17/01/2014	18/01/2013	MANUFACTURING METHOD FOR HOT PRESS FORMED STEEL MEMBER	KABUSHIKI KAISHA KOBE SEIKO SHO(KOBE STEEL LTD.)	01/07/2016	CHENNAI
92	432439	201947028768	21/09/2017	23/01/2017	METHOD AND DEVICE FOR TWO-STEP RANDOM ACCESSING	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	26/07/2019	CHENNAI
93	432445	2006/CHE/2014	17/04/2014 15:39:42		OPTIMUM DESIGN FOR NON-SOLENOIDAL OPERATION OF STARTER MOTORS	RAJALAKSHMI ENGINEERING COLLEGE	01/01/2016	CHENNAI

94	432448	201647016332	02/12/2014	02/12/2013	SHAPE ENHANCING GARMENTS WITH DISCONTINUOUS ELASTIC POLYMER COMPOSITION	INVISTA TECHNOLOGIES S.A R.L.,	31/08/2016	CHENNAI
95	432450	201747018736	03/11/2015	04/11/2014	AIR HOSE COUPLING FOR TIGHT LOCK COUPLER AND AIR HOSE COUPLING COMPONENT FOR TIGHT LOCK COUPLER	CRRC QISHUYAN INSTITUTE CO., LTD.,CRRC CHANGZHOU TECH-MARK INDUSTRIAL CO., LTD.	09/06/2017	CHENNAI
96	432453	201947030767	25/01/2017	25/01/2017	MESSAGE RECORD COMBINATION AND DISPLAY METHOD AND TERMINAL DEVICE	HUAWEI TECHNOLOGIES CO., LTD.	09/08/2019	CHENNAI
97	432457	201748040244	13/11/2009	14/11/2008	AIR BAG DEVICE	AUTOLIV DEVELOPMENT AB	17/11/2017	CHENNAI
98	432459	201844033412	05/09/2018 21:17:20	19/09/2017	LIQUID EXTRACTION APPARATUS AND METHOD	Rug Doctor, LLC	22/03/2019	CHENNAI
99	432460	201647022526	01/01/2015	01/01/2014	INTERCEPTION MISSILE AND WARHEAD THEREFOR	ISRAEL AEROSPACE INDUSTRIES LTD.	31/08/2016	CHENNAI
100	432464	6088/CHENP/2014	16/01/2013	18/01/2012	USING LIGHTNING DATA TO GENERATE PROXY REFLECTIVITY DATA	EARTH NETWORKS INC.	01/07/2016	CHENNAI
101	432465	201647022875	06/01/2015	07/01/2014	SIGNAL QUALITY BASED ENHANCEMENT AND COMPENSATION OF COMPRESSED AUDIO SIGNALS	Harman International Industries, Incorporated	31/08/2016	CHENNAI
102	432469	202047021770	05/12/2018	05/12/2017	REMOTE DETECTION OF WETNESS IN DIAPERS AND BANDAGES USING REUSABLE ELECTRONICS	SOBTI, Arun,SOBTI, Pamela,PANCHAL, Raj,PANCHAL, Darshana	28/08/2020	CHENNAI
103	432472	202047036174	30/04/2018	30/04/2018	SERVICE KIOSK DEVICE CONFIGURATION	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.	18/09/2020	CHENNAI
104	432476	202041009142	03/03/2020		TWIN AIR FILTER SYSTEM FOR HEAVY DUTY VEHICLE ENGINE	BEML LIMITED	12/03/2021	CHENNAI
105	432477	7524/CHENP/2015	09/05/2014	29/05/2013	SINGLE CHAIN INTRABODIES THAT ALTER HUNTINGTIN MUTANT DEGRADATION	VYBION INC.	08/07/2016	CHENNAI



106	432479	201747021299	18/11/2015	21/11/2014	ELECTRICAL INSULATION SYSTEM AND ELECTROMAGNETIC INDUCTION DEVICE COMPRISING THE SAME	Hitachi Energy Switzerland AG	30/06/2017	CHENNAI
107	432482	201941000168	02/01/2019 16:02:00		WIRELESS POWER TRANSMISSION USING MULTIPLE TRANSMITTERS AND RECEIVERS•	GE HYBRID TECHNOLOGIES, LLC	03/07/2020	CHENNAI
108	432483	202147032361	19/12/2019	25/12/2018	CYCLOBUTENE PRODUCTION METHOD	DAIKIN INDUSTRIES, LTD.	23/07/2021	CHENNAI
109	432486	201841040224	24/10/2018 22:34:00		A NOVEL MODULATION TECHNIQUE FOR GRID CONNECTED THREE PHASE QUASI Z SOURCE LINE SYNCHRONIZED INVERTER	THIAGARAJAR COLLEGE OF ENGINEERING	01/05/2020	CHENNAI
110	432488	201941000683	07/01/2019 17:06:00		EDOXABAN AND ITS INTERMEDIATES PROCESS	METROCHEM API PVT LTD.	10/07/2020	CHENNAI
111	432490	202248013043	17/05/2019	18/05/2018	CONFIGURABLE LINEAR ACCELERATOR FREQUENCY CONTROL SYSTEM AND METHOD	VAREX IMAGING CORPORATION	18/03/2022	CHENNAI
112	432493	201641026462	03/08/2016 14:24:28		SYSTEM AND DEVICE FOR DETECTING HUMAN FALL	R.V. College of Engineering	09/02/2018	CHENNAI
113	432494	201747017980	19/11/2015	27/11/2014	METHOD AND DEVICE FOR CHECKING QUANTITY AND PURITY IN PRESSURE SWING ADSORPTION PLANTS	LINDE AKTIENGESELLSCHAFT	26/05/2017	CHENNAI
114	432496	202241054027	21/09/2022 18:19:31		METHODS AND SYSTEMS FOR PRECISION MACHINING OF A HELICAL COMPRESSION SPRING TO ACHIEVE GEOMETRICAL PARAMETERS	INDIAN SPACE RESEARCH ORGANISATION	14/10/2022	CHENNAI
115	432498	202147019479	26/09/2019	01/10/2018	FEEDING DEVICE HAVING A METERING ELEMENT FOR ROLLER PRESS	KHD HUMBOLDT WEDAG GMBH	30/04/2021	CHENNAI

116	432500	201941021253	29/05/2019 16:54:38		SPHERODIZED SOFT BEARING STEEL AND A PROCESS FOR PRODUCING THE SAME USING WARM DEFORMATION.	JSW STEEL LIMITED	18/10/2019	CHENNAI
117	432502	201741004422	07/02/2017 16:55:37		A RADIAL MILLING FIXTURE AND A METHOD FOR MILLING A WORKPIECE THEREOF	SUNDRAM FASTENERS LIMITED	07/04/2017	CHENNAI
118	432504	201941040308	04/10/2019 16:21:45		OIL SPILL SEGREGATING ROVER	Mr. G. PRABU RAM,MR.A MUHAMED ISMAIL BUHARI,MR.D AJAYPRAKASH ,MR.R KATHIRVEL SARAVANAN,MR.M BALAJI,DR.S RAJAKARUNAKARAN ,MR.G.PRABU RAM,MR.R.ARUN KUMAR	18/10/2019	CHENNAI
119	432509	201941022069	04/06/2019 10:31:08		AN INTEGRATED FIXTURE AND A METHOD FOR MACHINING SPLIT PACKING RINGS	HEAVY VEHICLES FACTORY	11/12/2020	CHENNAI
120	432511	201941021623	31/05/2019 05:38:11		A COMPACT INDEPENDENTLY STABLE INLINE OUTPUT OIL COOLED INTERNAL COMBUSTION ENGINE	ABHILASH ANANDARAM KALLURAYA,HARIKRIS HNAN ALUNKAL VENKITESWARA,ANISH K. JOHN,SABU DASAYAN,PRAVEEN BEN GEORGE,ABHINAV AJITH,REUBEN M SHIBU,HARIKRISHNAN R,MARSHAL PRADEEP S,ARAVIND SB,JAATHU KRISHNAN V G	04/12/2020	CHENNAI
121	432512	3079/CHENP/2014	29/03/2012	04/11/2011	LINK ADAPTATION IN COORDINATED MULTIPOINT SYSTEM	Apple Inc.	03/07/2015	CHENNAI
122	432518	270/CHENP/2013	22/06/2011	22/06/2010	PROCESSING RELATED DATASETS	AB INITIO TECHNOLOGY LLC	13/05/2016	CHENNAI
123	432520	5336/CHE/2013	20/11/2013 11:06:55		VIBRATION ISOLATION MECHANISM TO ELIMINATE RELATIVE MOVEMENT BETWEEN SERVO ACTUATORS AND LINKAGES IN HELICOPTER	ROTARY WING RESEARCH AND DESIGN CENTRE HINDUSTAN AERONAUTICS LTD	24/06/2016	CHENNAI

124	432522	6610/CHE/2014	26/12/2014 18:03:15		A METHOD FOR OPTIMIZING ACCESS TO APPLICATION USING WEARABLE DEVICE IN COMMUNICATION WITH ELECTRONIC DEVICE	Samsung R & D Institute India- Bangalore Private Limited	01/07/2016	CHENNAI
125	432523	5626/CHE/2014	07/11/2014 17:43:42		METHOD AND SYSTEM FOR DISPLACING A DISPLAY ELEMENT PROXIMATE DISPLAY PORTION BASED ON HOVER EVENT	Samsung R & D Institute India- Bangalore Private Limited	01/07/2016	CHENNAI
126	432524	7071/CHENP/2014	18/03/2013	19/03/2012	LIGHT EMITTING DEVICE GROWN ON A SILICON SUBSTRATE	LUMILEDS HOLDING B.V.	01/07/2016	CHENNAI
127	432525	3230/CHENP/2015	31/10/2013	05/11/2012	TERMINAL DEVICE INTEGRATED CIRCUIT RADIO COMMUNICATION METHOD AND BASE STATION DEVICE	SHARP KABUSHIKI KAISHA	01/07/2016	CHENNAI
128	432526	7904/CHENP/2014	15/03/2013	30/03/2012	DEVICE AND METHOD FOR AUTONOMOUSLY PERFORMING AN IMPLICIT DETACH OPERATION	NEC CORPORATION	01/07/2016	CHENNAI
129	432530	201841025939	11/07/2018 18:46:37		REFRIGERATION AND TEMPERATURE CONTROL IN AN ENCLOSURE WITHOUT USING A COMPRESSOR	SRM Institute of Science and Technology	03/08/2018	CHENNAI
130	432533	3985/CHE/2015	31/07/2015 18:22:39		METHOD AND SYSTEM OF IDENTITY MAPPING AND TRANSLATION ACROSS MULTIPLE PLANES WITHIN SINGLE SERVICE•	Samsung R & D Institute India- Bangalore Private Limited	17/11/2017	CHENNAI
131	432536	4/CHENP/2015	29/10/2012	04/06/2012	METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING CONTROL INFORMATION IN WIRELESS COMMUNICATION SYSTEM	SAMSUNG ELECTRONICS CO. LTD.	01/07/2016	CHENNAI
132	432537	3983/CHE/2015	31/07/2015 18:19:19		METHOD AND SYSTEM FOR MANAGING OVERTAKING IN A VEHICLE	Mahindra & Mahindra Limited	03/02/2017	CHENNAI

133	432540	201747005123	25/08/2015	28/08/2014	ENHANCED INTERACTIVE TELEVISION EXPERIENCES	MICROSOFT TECHNOLOGY LICENSING LLC	26/05/2017	CHENNAI
134	432544	4836/CHE/2015	11/09/2015		PROCESS FOR PRODUCING BIOETHANOL USING CHEESE WHEY AND CELLULOSIC BIOMASS	INDIAN INSTITUTE OF TECHNOLOGY MADRAS(IITM)	28/07/2017	CHENNAI
135	432545	4596/CHE/2011	27/12/2011 15:10:20		SYSTEMS AND METHODS FOR DEMARCATING INFORMATION RELATED TO ONE OR MORE BLOCKS IN AN APPLICATION	INFOSYS LIMITED	05/07/2013	CHENNAI
136	432546	6792/CHENP/2014	23/01/2013	16/02/2012	ENGINEERED PESTICIDAL PROTEINS	SYNGENTA PARTICIPATIONS AG	01/07/2016	CHENNAI
137	432547	6986/CHENP/2014	15/03/2013	16/03/2012	SYSTEMS AND METHODS FOR SUPPORTING TRANSACTION RECOVERY BASED ON A STRICT ORDERING OF TWO PHASE COMMIT CALLS	ORACLE INTERNATIONAL CORPORATION	01/07/2016	CHENNAI
138	432548	531/CHE/2014	05/02/2014 15:01:32		SYNERGISTIC DIETARY SUPPLEMENT COMPOSITIONS FOR THE PREVENTION, TREATMENT OR CONTROL OF INFLAMMATORY DISORDERS	LAILA NUTRACEUTICALS	31/08/2016	CHENNAI
139	432550	201647008924	28/08/2014	06/09/2013	NAVIGATION SYSTEM	KONINKLIJKE PHILIPS N.V.,	05/08/2016	CHENNAI
140	432553	201841020158	30/05/2018 09:55:05		A NOVEL APPROACH TO DESIGN AND DEVELOPMENT OF AN INTEGRATED PARABOLIC TROUGH SOLAR COLLECTOR WITH TE	Dr. S. Edward Rajan Senior Professor, Dr. R. Pon Vengatesh Assistant Professor(Senior grade)	08/06/2018	CHENNAI
141	432554	201941033705	21/08/2019 18:22:52		CAVITATION BASED ADVANCED DEVICES FOR IN-SITU ALGAE GROWTH CONTROL AND ORGANIC POLLUTANT DEGRADATION	Dr. Aditi Mullick	26/02/2021	CHENNAI

142	432555	6989/CHENP/2014	15/03/2013	16/03/2012	SYSTEMS AND METHODS FOR SUPPORTING INLINE DELEGATION OF MIDDLE TIER TRANSACTION LOGS TO DATABASE	ORACLE INTERNATIONAL CORPORATION	01/07/2016	CHENNAI
143	432558	201947014237	31/10/2016	31/10/2016	DRIVE DEVICE AIR CONDITIONER AND DRIVE METHOD OF ELECTRIC MOTOR	MITSUBISHI ELECTRIC CORPORATION	17/05/2019	CHENNAI
144	432559	201644039571	21/11/2016 12:20:38	23/11/2015	CURRENT SENSOR AND DEVICE FOR MEASURING AN ELECTRICAL CURRENT	SCHNEIDER ELECTRIC INDUSTRIES SAS	26/05/2017	CHENNAI
145	432561	6967/CHENP/2015	30/05/2014	23/06/2013	SYSTEMS AND METHODS FOR PROCEDURE RETURN ADDRESS VERIFICATION	INTEL CORPORATION	31/08/2016	CHENNAI
146	432567	201747040935	04/04/2016	22/04/2015	THERMOFUSIBLE SHEET MATERIAL	CARL FREUDENBERG KG	24/11/2017	CHENNAI
147	432568	201747007818	25/08/2015	25/08/2014	MULTI-SEGMENT MACH-ZEHNDER MODULATOR DRIVER SYSTEM	HUAWEI TECHNOLOGIES CO., LTD.,	28/04/2017	CHENNAI
148	432569	201647023804	06/01/2015	06/01/2014	APPLICATION OF PIEZO TECHNOLOGY TO CONVERT ALTERNATING CURRENT (AC) LINE POWER TO ISOLATED DIRECT CURRENT (DC) POWER IN HIGH EXTERNAL MAGNETIC FIELDS	KONINKLIJKE PHILIPS N.V.	31/08/2016	CHENNAI
149	432572	4237/CHENP/2015	17/01/2014	18/01/2013	METHOD DEVICE AND COMPUTER PROGRAM FOR ENCAPSULATING PARTITIONED TIMED MEDIA DATA	CANON KABUSHIKI KAISHA	01/07/2016	CHENNAI
150	432577	201647026749	06/01/2015	10/01/2014	SPINNERET DEVICE	OERLIKON TEXTILE GMBH & CO. KG	31/08/2016	CHENNAI
151	432582	201747015742	28/11/2014	28/11/2014	A FUEL STORAGE SYSTEM	VOLVO TRUCK CORPORATION	12/05/2017	CHENNAI
152	432586	201747042184	24/02/2016	28/04/2015	FITTING FOR A CARDING MACHINE	Trützschler Group SE	01/12/2017	CHENNAI
153	432587	201647009068	13/10/2014	17/10/2013	OPTIMIZING DATA TRANSFERS IN CLOUD COMPUTING PLATFORMS	MICROSOFT TECHNOLOGY LICENSING, LLC	05/08/2016	CHENNAI

154	432590	201747034041	01/03/2015	01/03/2015	WAVEGUIDE E-PLANE BAND-PASS FILTER	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	06/10/2017	CHENNAI
155	432601	202147036643	08/01/2020	17/01/2019	RADIO CHANNEL FAST SCANNING	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	20/08/2021	CHENNAI
156	432604	5329/CHE/2013	19/11/2013 15:56:13		A METHOD FOR OPTIMIZING INDEX, MASTER DATABASE NODE AND SUBSCRIBER DATABASE NODE	HUAWEI TECHNOLOGIES CO., LTD.,	24/06/2016	CHENNAI
157	432605	201647020643	16/02/2015	26/02/2014	METHOD, APPARATUS AND SYSTEM FOR EXTRACTING WEBPAGE CONTENT •	TENCENT TECHNOLOGY (SHENZHEN) COMPANY LIMITED	31/08/2016	CHENNAI
158	432608	201747036878	14/02/2017	17/02/2016	CORE-SHELL COMPOSITE PARTICLES	WACKER CHEMIE AG	27/10/2017	CHENNAI
159	432610	201847000106	07/06/2016	08/06/2015	METHOD FOR CONNECTING A CONDUCTOR COMPRISING A BASE METAL TO A TERMINAL ELEMENT COMPRISING COPPER BY MEANS OF WELDING AS WELL AS A TERMINAL ASSEMBLY PRODUCED THEREBY	TE Connectivity Germany GmbH	12/01/2018	CHENNAI
160	432615	201741044254	08/12/2017 20:46:42		MAGNETIC POWERED ENGINE	ABUTORAB RAFI	14/06/2019	CHENNAI
161	432618	201741044424	11/12/2017 17:37:15		INTEGRATED TRIM AND INNER WEATHER STRIP FOR VEHICLE DOOR AND OUTER WEATHER STRIP MOUNTING ARRANGEMENT	Mahindra & Mahindra Limited	14/06/2019	CHENNAI
162	432621	7296/CHENP/2014	26/05/2009	26/01/2009	DOWNLINK INTERFERENCE CANCELLATION METHODS	QUALCOMM INCORPORATED	01/07/2016	CHENNAI
163	432622	201641001760	18/01/2016 17:13:03		SAFETY AND CONTINUOUS HEALTH MONITORING DEVICE WITH ALCOHOL SENSOR	MIISKY Technovation Private Limited	19/08/2016	CHENNAI
164	432627	397/CHE/2012	02/02/2012 14:40:41		METHOD AND SYSTEM FOR BEARER MANAGEMENT	TEJAS NETWORKS LIMITED	13/07/2012	CHENNAI

165	432628	309/CHE/2015	22/01/2015 06:24:30		A COMPOSITION COMPRISING MANGIFERIN, AND BETA-D-GLUCAN AND USES THEREOF	ITC LIMITED	29/07/2016	CHENNAI
166	432630	201647021332	30/12/2014	31/12/2013	SURFACING NAVIGATIONAL SEARCH RESULTS	GOOGLE LLC.	31/08/2016	CHENNAI
167	432636	2626/CHE/2014	28/05/2014 14:46:18		AN AUTOCROSS MECHANISM FOR PEDESTRIANS	DR. G. SATHEESH KUMAR	22/01/2016	CHENNAI
168	432641	201647007510	28/08/2014	20/09/2013	RUNTIME CUSTOMIZATION INFRASTRUCTURE	ORACLE INTERNATIONAL CORPORATION	01/07/2016	CHENNAI
169	432642	201647018064	30/10/2014	31/10/2013	HIGH-PRESSURE ROLLER PRESS WITH DEAERATION OF MATERIAL TO BE COMMUNUTED	KHD HUMBOLDT WEDAG GMBH	05/08/2016	CHENNAI
170	432647	201741011483	30/03/2017 18:15:09		A METHOD FOR OCCLUSION DETECTION DURING GROUND BASED OBJECT TRACKING	BHARAT ELECTRONICS LIMITED	05/10/2018	CHENNAI
171	432652	201641006763	26/02/2016 17:14:10		METHOD AND SYSTEM FOR COMMUNICATING BETWEEN CONNECTED DEVICES USING VOICE COMMANDS	SAMSUNG R&D Institute India - Bangalore Private Limited	01/09/2017	CHENNAI
172	432653	1455/CHENP/2014	20/01/2012	29/08/2011	APPARATUS FOR DECODING MERGE MODE MOTION INFORMATION	IBEX PT HOLDINGS CO. LTD.	10/10/2014	CHENNAI
173	432664	6499/CHE/2015	03/12/2015 19:55:13		SYSTEM AND METHOD FOR TEMPERATURE ADJUSTMENTS AND AIR FILTRATION INSIDE A HELMET	KAUSTHUB KAUNDINYA. Y,D.ANA ND KUMAR,P.NIKHIL,KO MMULA SREEKANTH	08/01/2016	CHENNAI
174	432666	201847005681	25/07/2016	23/07/2015	ANALYSIS OF FRAGMENTATION PATTERNS OF CELL FREE DNA	THE CHINESE UNIVERSITY OF HONG KONG	09/03/2018	CHENNAI
175	432673	201641009916	22/03/2016 12:55:01		PEN STAND PUZZLE	SRIKANTH KORLA,SURYAWANS HI NIKHIL RAMKRISHNA	17/06/2016	CHENNAI
176	432678	201747033423	24/03/2016	26/03/2015	METHOD FOR TREATING A SEMICONDUCTOR SENSOR ARRAY DEVICE	LIFE TECHNOLOGIES CORPORATION	29/09/2017	CHENNAI

177	432681	202147020612	07/10/2019	10/10/2018	CAVITATION REACTOR	THREE ES S.R.L.	14/05/2021	CHENNAI
178	432685	202041001360	13/01/2020 11:36:25		FREEZE DESALINATION OF SEAWATER/POLLUTED WATER WITH ZERO LIQUID DISCHARGE	GOPINATH R.S	12/06/2020	CHENNAI
179	432696	1469/CHE/2015	23/03/2015 16:46:38	24/03/2014	TRIP CAUSE MANAGEMENT DEVICE FOR AN ELECTRONIC TRIP DEVICE	SCHNEIDER ELECTRIC INDUSTRIES SAS	01/07/2016	CHENNAI
180	432698	6500/CHENP/2014	12/02/2013	21/02/2012	BEVERAGE PREPARATION MODULE HAVING ADDITIONAL MODULES FOR SELF SERVICE BEVERAGE VENDING MACHINES	SCHAERER AG	01/07/2016	CHENNAI
181	432699	201647000438	24/07/2013	24/07/2013	FIELD WINDING TYPE ROTATING ELECTRIC MACHINE DIAGNOSTIC DEVICE AND FIELD WINDING TYPE ROTATING ELECTRIC MACHINE DIAGNOSTIC METHOD	mitsubishi electric CORPORATION	01/07/2016	CHENNAI
182	432702	201647007818	24/04/2014	12/08/2013	METHOD OF MANUFACTURING AN ELECTROMAGNETIC INDUCTION DEVICE AND AN ELECTROMAGNETIC INDUCTION DEVICE	Hitachi Energy Switzerland AG	01/07/2016	CHENNAI
183	432711	706/CHENP/2015	31/05/2013	20/07/2012	METHOD PROCESSING DEVICE AND INFORMATION STORAGE MEANS FOR ALLOCATING RESOURCES FOR A DOWNLINK COMMUNICATION ON A FREQUENCY SELECTIVE CHANNEL	MITSUBISHI ELECTRIC CORPORATION	01/07/2016	CHENNAI
184	432713	7521/CHENP/2014	15/03/2013	16/03/2012	CIRCUIT FOR MONITORING ABNORMALITIES IN ECU	DENSO CORPORATION, ADVICS CO. LTD	01/07/2016	CHENNAI
185	432716	1232/CHE/2012	29/03/2012 19:57:24		A SYSTEM AND METHOD OF INFORMATION PROPAGATION BETWEEN ENTITIES IN AN OPTICAL COMMUNICATION NETWORK	Tejas Networks Limited	04/10/2013	CHENNAI



186	432717	201841011168	26/03/2018 20:15:05		COSMETIC COMPOSITIONS AND IMPLEMENTATIONS THEREOF	ITC LIMITED	27/09/2019	CHENNAI
187	432720	201841004633	07/02/2018		ALERT INDICATION MECHANISM FOR A STRADDLE TYPE VEHICLE	TVS MOTOR COMPANY LIMITED	13/12/2019	CHENNAI
188	432721	3401/CHENP/2015	11/11/2013	19/12/2012	METHOD AND APPARATUS FOR SECURITY MECHANISM FOR PROXIMITY BASED ACCESS REQUESTS	NOKIA TECHNOLOGIES OY	01/07/2016	CHENNAI
189	432723	201947029530	05/12/2017	04/02/2017	RESOURCE INDICATION METHOD RESOURCE ACQUISITION METHOD AND RELATED DEVICE	HUAWEI TECHNOLOGIES CO., LTD.	02/08/2019	CHENNAI
190	432725	202141012082	22/03/2021 10:15:24		MONITORING AND CONTROL OF MULTIPLE WIRELESS SWITCH AND SENSOR BOARD UNITS USING STAR ZIGBEE NETWORK AND IoT	Dr. RAO, Suresh S	02/04/2021	CHENNAI
191	432726	6378/CHENP/2014	05/03/2013	07/03/2012	CIRCUIT ASSEMBLY FOR THE STATE MONITORING AND LOGGING OF OVERVOLTAGE PROTECTION DEVICES OR OVERVOLTAGE PROTECTION SYSTEMS	DEHN SE + Co KG	01/07/2016	CHENNAI
192	432728	7149/CHENP/2015	08/05/2014	10/05/2013	SYSTEMS AND METHODS FOR NONDESTRUCTIVE EVALUATION OF MOLDS AND CRUCIBLES USED IN INVESTMENT CASTING	GENERAL ELECTRIC COMPANY	01/07/2016	CHENNAI
193	432729	4001/CHENP/2015	14/01/2014	15/01/2013	SYSTEMS AND METHODS FOR BUILDING AND USING HYBRID MOBILE APPLICATIONS	MICROSOFT TECHNOLOGY LICENSING LLC	01/07/2016	CHENNAI
194	432733	201647024042	04/12/2014	19/12/2013	SEALING SYSTEM FOR TANK ROTARY SHAFT	RIO TINTO ALCAN INTERNATIONAL LIMITED	31/08/2016	CHENNAI
195	432749	201741045263	15/12/2017 21:32:49		A VEHICLE COCKPIT	SAMSUNG ELECTRONICS CO., LTD.	21/06/2019	CHENNAI

196	432752	7642/CHENP/2014	18/03/2013	23/03/2012	CORONA IGNITION DEVICE WITH IMPROVED ELECTRICAL PERFORMANCE	FEDERAL-MOGUL IGNITION LLC	01/07/2016	CHENNAI
197	432756	201947034849	03/03/2017	03/03/2017	SALIENT POLE MACHINE	GE RENEWABLE TECHNOLOGIES	06/09/2019	CHENNAI
198	432759	154/CHE/2014	13/01/2014		A STORAGE BOX IN AN AUTOMATIC TRANSMISSION SCOOTER	M/S TVS MOTOR COMPANY LIMITED	24/06/2016	CHENNAI
199	432762	201841008637	08/03/2018 20:18:33		TRANSLUCENT SOAP COMPOSITION, AND METHOD OF PREPARATION THEREOF	ITC LIMITED	13/09/2019	CHENNAI
200	432768	5926/CHE/2013	18/12/2013		TROLLEY TYPE DOFFING MACHINE FOR RING SPINNING OR DOUBLING MACHINE WITH BARE BOBBIN PRESSING MECHANISM	LAKSHMI PRECISION TOOLS LIMITED	26/06/2015	CHENNAI
201	432770	202041024938	13/06/2020 22:21:44		SAFETY KNOB FOR GAS COOKTOPS	BUTTERFLY GANDHIMATHI APPLIANCES LIMITED, DIGAS PRIVATE LIMITED	17/12/2021	CHENNAI
202	432772	201647016515	14/11/2014	15/11/2013	A PROCESS FOR PREPARING CRYSTALLINE COMPOUND OF {[5 -(3 - CHLOROPHENYL)-3- HYDROXYPYRIDINE-2 - CARBONYL]AMINO}ACETIC ACID CARBONYL]AMINO}ACETIC ACID	AKEBIA THERAPEUTICS INC.	05/08/2016	CHENNAI
203	432773	4470/CHENP/2015	18/01/2013	18/01/2013	METHOD AND DEVICE FOR SENDING AND DETECTING DISCOVERY REFERENCE SIGNAL	HUAWEI TECHNOLOGIES CO. LTD.	01/07/2016	CHENNAI
204	432774	201647026717	09/01/2015	10/01/2014	METHOD FOR EXTRACTING LIGNIN	CH-Bioforce Oy	31/08/2016	CHENNAI
205	432780	202144013481	26/03/2021 18:33:47	28/06/2020	SWITCH CIRCUIT AND CONTROL METHOD THEREOF, SMART SWITCH AND CONTROL SYSTEM	BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.	31/12/2021	CHENNAI

206	432784	6838/CHE/2015	22/12/2015 18:07:30		DEVICE AND METHOD FOR REAL-TIME MONITORING AND CONTROL OF DISTRIBUTED POWER GENERATING STATIONS	CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING (CDAC)	23/06/2017	CHENNAI
207	432787	201947006064	18/08/2017	23/08/2016	MANIPULATING VIRTUAL OBJECTS WITH SIX DEGREE-OF-FREEDOM CONTROLLERS IN AN AUGMENTED AND/OR VIRTUAL REALITY ENVIRONMENT	GOOGLE LLC	01/03/2019	CHENNAI
208	432791	201641032485	23/09/2016 12:10:25		METHODS AND SYSTEMS FOR MANAGING A PLURALITY OF ANONYMOUS USERS PARTICIPATING IN A CONFERENCE SESSION	SAMSUNG ELECTRONICS CO., LTD.	30/03/2018	CHENNAI
209	432792	201947030952	25/01/2017	25/01/2017	POWER AMPLIFICATION APPARATUS, REMOTE RADIO UNIT, AND BASE STATION	HUAWEI TECHNOLOGIES CO., LTD.	09/08/2019	CHENNAI
210	432797	201747035669	13/03/2015	13/03/2015	TEMPERATURE COMPENSATION OF A SIGNAL IN A VIBRATORY METER	MICRO MOTION, INC.	13/10/2017	CHENNAI
211	432799	3579/CHE/2011	18/10/2011 16:34:41		PAYLOAD SEPARATION SYSTEM	INDIAN SPACE RESEARCH ORGANISATION	21/06/2013	CHENNAI
212	432813	202147036257	06/02/2020	14/05/2019	DOOR CLOSING CONTROL SYSTEM AND DOOR CLOSING CONTROL METHOD	IHI TRANSPORT MACHINERY CO., LTD.	20/08/2021	CHENNAI
213	432814	6935/CHENP/2014	22/02/2013	01/03/2012	METHODS AND APPARATUS FOR INTERPOLATING LOW FRAME RATE TRANSMISSIONS IN LIGHTING SYSTEMS	SIGNIFY HOLDING B.V.	01/07/2016	CHENNAI
214	432815	6284/CHENP/2014	15/11/2012	15/03/2012	INSTRUCTION TO LOAD DATA UP TO A SPECIFIED MEMORY BOUNDARY INDICATED BY THE INSTRUCTION	INTERNATIONAL BUSINESS MACHINES CORPORATION	01/07/2016	CHENNAI
215	432816	201647044095	14/04/2015	26/05/2014	DEVICE ON A CARDER FOR FILLING A ROUND CAN WITH SLIVER E.G. COTTON MAN MADE FIBERS OR THE LIKE	Tr/4tzschler Group SE	28/04/2017	CHENNAI

216	432817	201947030769	05/01/2018	04/02/2017	INDICATION METHOD AND DEVICE	HUAWEI TECHNOLOGIES CO., LTD.	09/08/2019	CHENNAI
217	432819	2671/CHE/2013	19/06/2013 18:25:19		SYSTEMS AND METHODS TO CONSTRUCT ENGINEERING ENVIRONMENT SUPPORTING API ENABLEMENT FOR SOFTWARE DEFINED NETWORKING	HCL Technologies Limited	19/07/2013	CHENNAI
218	432822	1796/CHENP/2015	30/10/2013	30/10/2012	SYSTEM AND METHOD FOR DEBUGGING DOMAIN SPECIFIC LANGUAGES	ORACLE INTERNATIONAL CORPORATION	01/07/2016	CHENNAI
219	432825	202047010219	24/07/2018	13/09/2017	DEVICE FOR RECORDING A THREE-DIMENSIONAL ENVIRONMENT	DUTCH IMMERSIVE IMAGING INNOVATION B.V.	20/03/2020	CHENNAI
220	432826	201647028865	31/03/2014	31/03/2014	LOCATION AWARE POWER MANAGEMENT SCHEME FOR ALWAYS-ON-ALWAYS-LISTEN VOICE RECOGNITION SYSTEM	INTEL CORPORATION	07/10/2016	CHENNAI
221	432829	201747044317	26/10/2016	26/10/2015	SYSTEMS AND METHODS FOR ATTRIBUTING A SCROLL EVENT IN AN INFINITE SCROLL GRAPHICAL USER INTERFACE	GOOGLE LLC	12/01/2018	CHENNAI
222	432832	202047054272	21/05/2019	21/05/2018	SYSTEM AND PROCESS FOR INCREASING PROTEIN PRODUCT YIELD FROM BACTERIAL CELLS	JUPENG BIO (HK) LIMITED	25/12/2020	CHENNAI
223	432833	346/CHENP/2012	15/06/2010	18/06/2009	GRAPHICAL AUTHENTICATION	BlackBerry Limited	29/03/2013	CHENNAI
224	432834	4256/CHE/2011	07/12/2011 16:04:25		METHOD OF LOCATING FAULTY DEVICE AUTOMATICALLY IN AN AUTOMATION SETUP AND SYSTEM THEREOF	SCHNEIDER ELECTRIC INDUSTRIES SAS	14/06/2013	CHENNAI
225	432835	201741008017	07/03/2017 21:23:18		A METHOD AND A SYSTEM FOR DETECTING DROWSINESS STATE OF A VEHICLE USER	WIPRO LIMITED	14/09/2018	CHENNAI

226	432837	201647038250	14/04/2015	15/04/2014	LIMITING USER INTERACTION WITH A COMPUTING DEVICE BASED ON PROXIMITY OF A USER	GOOGLE LLC.	10/02/2017	CHENNAI
227	432838	201847045510	07/06/2017	20/06/2016	MANAGING REFRESH FOR FLASH MEMORY	QUALCOMM INCORPORATED	22/02/2019	CHENNAI
228	432839	202047023143	23/08/2018	21/12/2017	ANTENNA AND TERMINAL	HUAWEI TECHNOLOGIES CO., LTD.	28/08/2020	CHENNAI
229	432843	6057/CHE/2014	02/12/2014 19:25:24		DRILLING FLUID AND METHOD USEFUL IN DRILLING BOREHOLES IN WATER-SENSITIVE FORMATIONS	INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras)	26/08/2016	CHENNAI
230	432848	202141013877	28/03/2021 18:03:06		A System for Controlling an Idle Stop Start Module in a Vehicle and Method Thereof	TVS MOTOR COMPANY LIMITED	18/03/2022	CHENNAI
231	432849	970/CHENP/2014	09/05/2012	12/08/2011	WIRELESS COMMUNICATION SYSTEM, BASE STATION, COMMUNICATION METHOD AND MOBILE STATION	NEC Corporation	10/10/2014	CHENNAI
232	432850	6352/CHE/2015	26/11/2015 13:56:52		A MT-ATP SOLUTION	DIPONED BIOINTELLIGENCE	21/07/2017	CHENNAI
233	432852	4358/CHE/2014	05/09/2014	28/09/2013	KEYBOARD FOR AN ELECTRONIC DEVICE	INTEL CORPORATION	01/07/2016	CHENNAI
234	432853	201641002433	22/01/2016		HOLDING STRUCTURE FOR AN INTERNAL COMBUSTION ENGINE	TVS MOTOR COMPANY LIMITED	08/09/2017	CHENNAI
235	432854	201847036222	23/11/2017	22/05/2017	PROTECTIVE CIRCUIT, ARRAY SUBSTRATE AND DISPLAY PANEL	BOE TECHNOLOGY GROUP CO., LTD.	24/05/2019	CHENNAI
236	432855	5443/CHE/2014	31/10/2014 13:08:18		SMART BIN TRACKING SYSTEM	VIT UNIVERSITY	01/07/2016	CHENNAI
237	432860	2904/CHE/2015	10/06/2015 14:59:40		METHOD AND SYSTEM FOR AUTOMATIC ACTIVITY UPDATE GENERATION	SAMSUNG R&D Institute India - Bangalore Private Limited	16/12/2016	CHENNAI
238	432862	201841008257	06/03/2018 18:20:56		A VESATILE HYBRID ROBOTIC SYSTEM FOR MULTIMODAL LOCOMOTION AND GRASPING	INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras)	13/09/2019	CHENNAI

239	432863	201741005589	16/02/2017 20:01:38		SYSTEM AND METHOD FOR REPRESENTING SOFTWARE DEVELOPMENT REQUIREMENTS INTO STANDARD DIAGRAMS	WIPRO LIMITED	17/08/2018	CHENNAI
240	432864	201744020458	12/06/2017 15:49:35	17/06/2016	LAP WINDING DEVICE	KABUSHIKI KAISHA TOYOTA JIDOSHOKKI	22/12/2017	CHENNAI
241	432867	201647005639	23/07/2014	23/07/2013	STABILIZED ANTIBODY COMPOSITION AND METHOD OF STABILIZING SAID COMPOSITION	NOVALIQ GmBH	31/08/2016	CHENNAI
242	432869	201741007241	01/03/2017 17:02:13		SYSTEM AND METHOD FOR TESTING A RESOURCE CONSTRAINED DEVICE	WIPRO LIMITED	07/09/2018	CHENNAI
243	432870	201847010379	31/08/2016	31/08/2015	COMPONENT MADE OF HOLLOW GLASS BLOCKS	SEMADENI, Marco	30/03/2018	CHENNAI
244	432871	201741042238	24/11/2017 16:15:43		A METHOD AND SYSTEM FOR PROCESSING MULTIMODAL USER QUERIES	WIPRO LIMITED	31/05/2019	CHENNAI
245	432874	202041052620	03/12/2020 13:46:23		BIDIRECTIONAL RELEASE OF CUSTOMIZABLE FUSED MULTIFRACTIONAL ORAL RELEASE SYSTEM	JSS College of Pharmacy, Ooty - JSS Academy of Higher Education & Research, Mysuru	11/12/2020	CHENNAI
246	432880	201944046832	18/11/2019 13:20:18	21/11/2018	FLYER FOR ROVING MACHINE	KABUSHIKI KAISHA TOYOTA JIDOSHOKKI	22/05/2020	CHENNAI
247	432882	202141017534	15/04/2021 16:00:11		NOVEL UV-SPECTROSCOPIC APPROACH FOR QUANTIFICATION OF SIMVASTATIN AND SITAGLIPTIN IN BULK AND PHARMACEUTICAL FORMULATION	Dr.Rama Rao Nadendla	23/04/2021	CHENNAI
248	432885	1156/CHE/2014	07/03/2014 11:03:02	15/03/2013	PARALLEL APPARATUS FOR HIGH-SPEED, HIGHLY COMPRESSED LZ77 TOKENIZATION AND HUFFMAN ENCODING FOR DEFLATE COMPRESSION	INTEL CORPORATION	01/07/2016	CHENNAI

249	432886	202147028163	22/12/2019	24/12/2018	PROCEDURE FOR OBTAINING SCORODITE WITH A HIGH ARSENIC CONTENT FROM ACIDIC SOLUTIONS WITH HIGH CONTENT OF SULFURIC ACID	ECOMETALES LIMITED	02/07/2021	CHENNAI
250	432889	7849/CHENP/2014	14/05/2013	15/05/2012	INFORMATION SEARCHING METHOD AND SYSTEM BASED ON GEOGRAPHIC LOCATION	ALIBABA GROUP HOLDING LIMITED	01/07/2016	CHENNAI
251	432891	201847036677	26/08/2016	26/08/2016	LEAD ACID STORAGE BATTERY FORGED GRID AND METHOD FOR PRODUCING SAME	HITACHI CHEMICAL COMPANY, LTD.	05/10/2018	CHENNAI
252	432893	6227/CHE/2015	19/11/2015 12:58:13		PISTON INTEGRATED CIRUCMFERENTIAL SPARK IGNITION (PICS)	SHARRAN.S.R,SIVANE SAN.G	26/02/2016	CHENNAI
253	432895	201747026414	30/01/2015	30/01/2015	VENTED MICROFLUIDIC RESERVOIRS	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.	15/12/2017	CHENNAI
254	432898	1958/CHENP/2013	25/08/2011	01/09/2010	AUTO-FOCUS CONTROL USING IMAGE STATISTICS DATA WITH COARSE AND FINE AUTO-FOCUS SCORES	APPLE INC.	31/07/2015	CHENNAI
255	432902	201747033336	20/10/2016	23/10/2015	SYSTEM AND METHOD FOR SANDBOXING SUPPORT IN A MULTIDIMENSIONAL DATABASE ENVIRONMENT	ORACLE INTERNATIONAL CORPORATION	06/10/2017	CHENNAI
256	432903	201944023868	17/06/2019 13:44:15	20/06/2018	SIMULATED MOVING BED SEPARATION METHOD AND DEVICE WITH REDUCED NUMBER OF BEDS AND BYPASS FLUID FLOW	IFP Energies nouvelles	31/01/2020	CHENNAI

## Publication Under Section 43(2) in Respect of the Grant

**Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed form-7 along with written statement and evidence, if any.**

Serial Number	Patent Number	Application Number	Date of Application	Date of Priority	Title of Invention	Name of Patentee	Date of Publication of Abstract u/s 11(A)	Appropriate Office
1	432202	202231044713	04/08/2022 22:32:08		AN APPARATUS FOR ANALYSING BREAKDOWN AND PRE-BREAKDOWN PHENOMENA IN LIQUID-DIELECTRICS	Indian Institute of Technology Guwahati	18/11/2022	KOLKATA
2	432208	201837030386	06/02/2017	05/02/2016	SRS DESIGN FOR UNLICENSED CARRIERS	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	21/09/2018	KOLKATA
3	432210	171/KOLNP/2015	27/06/2013	29/06/2012	SYSTEM AND METHOD FOR TRANSPARENT IN-NETWORK ADAPTATION OF RICH INTERNET APPLICATIONS	ByteMobile Innovations, LLC	18/12/2015	KOLKATA
4	432229	3209/KOLNP/2015	12/03/2014	13/03/2013	MAGNETIC DETECTOR	ENDOMAGNETICS LTD.	12/02/2016	KOLKATA
5	432233	201937012545	04/10/2017	04/10/2016	SECURITY ELEMENT AND VALUE DOCUMENT HAVING SAID SECURITY ELEMENT	HUECK FOLIEN GESELLSCHAFT M.B.H.,BANQUE DE FRANCE	28/06/2019	KOLKATA
6	432253	201837042875	27/04/2017	10/05/2016	METHOD AND APPARATUS FOR SENDING AND RECEIVING WIRELESS FRAME	HUAWEI TECHNOLOGIES CO., LTD.	14/12/2018	KOLKATA
7	432254	396/KOL/2012	03/04/2012 18:21:38	08/04/2011	A ROTARY CUTTING APPARATUS WITH VIBRATION ATTENUATION MEANS	Hyperion Materials & Technologies (Sweden) AB.	26/08/2016	KOLKATA
8	432257	360/KOL/2012	30/03/2012		LEATHER MATERIAL DERIVED FROM THE HIDE OF THE BOVINE SPECIES OF MITHUN AND A METHOD FOR PREPARING THE SAME IN RURAL INDUSTRY	NATIONAL RESEARCH CENTRE ON MITHUN, (ICAR)	26/08/2016	KOLKATA



9	432261	4278/KOLNP/2015	13/05/2014	09/07/2013	ELECTRICITY AND MICROCURRENT GENERATOR	KIM, Chun Gi	19/02/2016	KOLKATA
10	432262	201837043888	16/05/2016	16/05/2016	COMMUNICATION METHOD AND APPARATUS DURING SWITCHING	HUAWEI TECHNOLOGIES CO.,LTD.	14/12/2018	KOLKATA
11	432265	201737001450	18/06/2015	18/06/2014	KIT OR DEVICE FOR DETECTING LUNG CANCER AND LUNG CANCER DETECTION METHOD	TORAY INDUSTRIES INC.,NATIONAL CANCER CENTER	05/05/2017	KOLKATA
12	432267	201737035680	06/04/2016	09/04/2015	SYSTEM AND METHOD FOR IDENTIFYING AN OBJECT IN AN IMAGE	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	10/11/2017	KOLKATA
13	432292	201837041960	28/02/2017	14/11/2016	MESSAGE PUSHING METHOD AND TERMINAL	HUAWEI TECHNOLOGIES CO., LTD.	28/12/2018	KOLKATA
14	432312	201637026625	16/02/2015	19/02/2014	METHOD AND DEVICE FOR SELECTING AND ALLOCATING TRANSMISSION BEAM INDEX HAVING PRIORITY	SAMSUNG ELECTRONICS CO. LTD.	26/08/2016	KOLKATA
15	432314	201731045858	20/12/2017 17:18:43		A METHOD AND DEVICE FOR THE THERMAL FATIGUE TESTING OF THICK WALLED LARGE SIZE CYLINDRICAL COMPONENTS	BHARAT HEAVY ELECTRICALS LIMITED	28/06/2019	KOLKATA
16	432316	3745/KOLNP/2015	28/05/2014	28/05/2013	SYSTEM FOR CONTROLLING INDUSTRIAL AND DOMESTIC DEVICES	EXOR INTERNATIONAL S.P.A.	24/06/2016	KOLKATA
17	432324	613/KOL/2015	01/06/2015 12:05:21		FLEXIBLE ENDOSCOPE FOR TREATMENT	MAHAJAN; NITIN	01/07/2016	KOLKATA
18	432343	201831009001	12/03/2018 17:07:31		AN IMPROVED METHOD FOR SEQUENCING OF SLABS IN REHEATING FURNACE IN ORDER TO ROLL MARAGING GRADE STEEL IN A PLATE MILL	STEEL AUTHORITY OF INDIA IMITED	13/09/2019	KOLKATA
19	432344	1943/KOLNP/2015	04/12/2014	31/12/2013	VIRTUAL MACHINE LIVE MIGRATION METHOD, VIRTUAL MACHINE MEMORY DATA PROCESSING METHOD, SERVER, AND VIRTUAL MACHINE SYSTEM	HUAWEI TECHNOLOGIES CO. LTD.	29/01/2016	KOLKATA

20	432347	2613/KOLNP/2015	15/02/2013	15/02/2013	METHOD FOR CONTROLLING USER PLANE TRAFFIC FLOWS IN A WIRELESS TELECOMMUNICATION NETWORK	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	24/06/2016	KOLKATA
21	432348	201737019851	20/11/2015	21/11/2014	SCAFFOLDING ARRANGEMENT	FAST BEAM OY	13/10/2017	KOLKATA
22	432371	201637012261	09/09/2014	17/09/2013	COMMUNICATION DEVICE COMMUNICATION METHOD	NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	26/08/2016	KOLKATA
23	432372	201837016351	25/11/2016	22/12/2015	BUSBAR ARRANGEMENT	SIEMENS MOBILITY GMBH	22/06/2018	KOLKATA
24	432379	201837008920	06/09/2016	10/09/2015	IMAGE SYNTHESIZER FOR A SURROUND MONITORING SYSTEM	KNORR BREMSE SYSTEME FR NUTZFAHRZEUGE GMBH	20/04/2018	KOLKATA
25	432386	1169/KOLNP/2014	24/10/2012	07/11/2011	METHODS AND ARRANGEMENTS FOR TRANSMITTING AND RECEIVING DOWNLINK CONTROL INFORMATION FOR MOBILE WIRELESS COMMUNICATION	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	16/10/2015	KOLKATA
26	432404	201738035231	27/02/2009	31/03/2008	METHOD FOR INCREASING THE TOUGHNESS OF DRILL BITS FOR A ROCK DRILL CROWN	EPIROC DRILLING TOOLS AKTIEBOLAG	10/11/2017	KOLKATA
27	432414	201734018896	30/05/2017 11:34:27	25/07/2016	SYSTEM, METHOD AND A COMPUTER PROGRAM PRODUCT FOR CONFIGURING A PROTECTION SYSTEM OF A POWER NETWORK	SIEMENS AKTIENGESELLSCHAFT	02/02/2018	KOLKATA
28	432441	8/KOLNP/2015	12/03/2013	08/06/2012	BAFFLE WITH EXPANDING MATERIAL	ZEPHYROS INC.	11/12/2015	KOLKATA
29	432456	201631042903	16/12/2016 11:31:18		A PROCESS FOR PREPARING AN OPHTHALMIC HERBAL FORMULATION	RAM, RAMNANDAN	29/03/2019	KOLKATA
30	432461	3230/KOLNP/2015	14/04/2014	12/04/2013	A SKIMMING AND SEPARATION DEVICE	SURFCLEANER AB	24/06/2016	KOLKATA

31	432473	202138009849	29/07/2015	29/07/2014	METHODS FOR ADAPTING OVER-THE-AIR SYNCHRONIZATION TO RADIO CONDITIONS	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	26/03/2021	KOLKATA
32	432491	1143/KOL/2015	12/11/2015 17:04:42		VACUUM HEAT TREATMENT OF POWER CAPACITORS	SCHNEIDER ELECTRIC INDUSTRIES SAS	13/10/2017	KOLKATA
33	432503	3077/KOLNP/2015	11/03/2014	12/03/2013	PARTICLE FOAM COMPONENT AND METHOD FOR PRODUCING SAME	KRALLMANN KUNSTSTOFFVERARBEITUNG GMBH	24/06/2016	KOLKATA
34	432514	947/KOL/2015	02/09/2015 16:30:54	05/09/2014	INFORMATION PROCESSING APPARATUS, IMAGE PROCESSING APPARATUS, INFORMATION PROCESSING SYSTEM AND INFORMATION PROCESSING METHOD	RICOH COMPANY, LTD.	08/04/2016	KOLKATA
35	432521	3667/KOLNP/2015	02/05/2014	22/05/2013	LOW COMPLEXITY DIGITAL PREDISTORTION FOR CONCURRENT MULTI BAND TRANSMITTERS	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	01/07/2016	KOLKATA
36	432527	201637039674	27/05/2015	30/05/2014	AIR TREATMENT DEVICE COMPRISING A PLASMA COIL ELECTROSTATIC PRECIPITATOR ASSEMBLY	NOVAERUS PATENTS LIMITED	21/04/2017	KOLKATA
37	432531	201634042678	14/12/2016 19:54:14	30/12/2015	METHOD, APPARATUS, AND SYSTEM FOR IMPLEMENTING PACKET LOSS DETECTION	HUAWEI TECHNOLOGIES CO., LTD.	07/07/2017	KOLKATA
38	432552	194/KOLNP/2014	01/07/2011	01/07/2011	SERVICE FREQUENCY BASED 3GDT	TELEFONAKTIEBOLAGET L M ERICSSON (publ)	02/05/2014	KOLKATA
39	432562	201737007478	17/11/2015	17/11/2014	REVERSE FLOW JET PUMP	WEATHERFORD TECHNOLOGY HOLDINGS LLC	18/08/2017	KOLKATA
40	432564	1367/KOL/2013	03/12/2013 16:28:08		BLOOD GROUP DETECTOR EMPLOYED WITH OPTICAL FIBER SENSOR	SANAT KUMAR RATHORE	02/10/2015	KOLKATA

41	432570	3559/KOLNP/2013	17/05/2011	17/05/2011	METHOD AND ARRANGEMENT FOR SUPPORTING CALIBRATION OF CORRELATED ANTENNAS	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)	11/04/2014	KOLKATA
42	432583	3234/KOLNP/2015	27/02/2014	11/04/2013	MOBILE CONCRETE PUMP WITH DISTRIBUTING BOOM AND SUPPORT DEVICE	PUTZMEISTER ENGINEERING GMBH	24/06/2016	KOLKATA
43	432593	202037005944	08/08/2018	10/08/2017	WIRELESS BASE STATION AND COMMUNICATION CONTROL METHOD	NTT DOCOMO, INC.	29/05/2020	KOLKATA
44	432616	201637032887	27/02/2015	28/02/2014	METHOD AND DEVICE FOR GENERATING NON GAUSSIAN INTERFERENCE CHANNEL IN WIRELESS COMMUNICATION SYSTEM	SAMSUNG ELECTRONICS CO. LTD.	10/03/2017	KOLKATA
45	432644	201834010544	22/03/2018 12:48:12	24/03/2017	ELECTRONIC DEVICE COMPRISING ANTENNA	SAMSUNG ELECTRONICS CO., LTD.	19/10/2018	KOLKATA
46	432646	2543/KOLNP/2015	11/02/2014	14/02/2013	AIR SUPPLY SYSTEM WITH ELECTRONIC CONVERTER	KNORR BREMSE SYSTEME FR SCHIENENFAHRZEUGE GMBH	24/06/2016	KOLKATA
47	432648	201731008276	09/03/2017 17:03:08		A DEVICE AND METHOD FOR ENHANCING NICOTINE SALT AEROSOL DELIVERY	ITC LIMITED	14/09/2018	KOLKATA
48	432651	201838030530	20/04/2012	25/04/2011	AN INTRA PREDICTION METHOD FOR VEDIO DECODING/ENCODING AND VEDIO DECODING/ENCODING APPARATUS	LG ELECTRONICS INC.	08/03/2019	KOLKATA
49	432679	2867/KOLNP/2015	22/02/2013	22/02/2013	SUB FRAME GENERATING METHOD AND EQUIPMENT SUB FRAME DETERMINING METHOD AND USER EQUIPMENT	HUAWEI TECHNOLOGIES CO. LTD.	24/06/2016	KOLKATA
50	432686	201637032258	04/03/2015	26/03/2014	OPERATION CONTROL DEVICE FOR ELECTRONIC APPARATUS	EASYS AVER CO. LTD	23/12/2016	KOLKATA

51	432691	900/KOLNP/2015	18/10/2012	18/10/2012	METHOD APPARATUS AND SYSTEM FOR PROCESSING DATA FIELD SERVICE	HUAWEI TECHNOLOGIES CO. LTD.	08/01/2016	KOLKATA
52	432693	37/KOL/2012	16/01/2012 17:14:00		A WEDGE SHAPE SINGLE STRAND TUNDISH IN A CONTINUOUS METAL CASTING PROCESS	TATA STEEL LIMITED	26/08/2016	KOLKATA
53	432709	1456/KOLNP/2015	14/11/2013	14/11/2012	DIVIDED PHASE AC SYNCHRONOUS MOTOR CONTROLLER	QM POWER, INC.	01/01/2016	KOLKATA
54	432710	201637029569	23/02/2015	28/02/2014	CONTROL BODY FOR AN ELECTRONIC SMOKING ARTICLE	RAI STRATEGIC HOLDINGS INC.	11/11/2016	KOLKATA
55	432745	45/KOL/2015	12/01/2015		SECURING NETWORK ACCESS WITH DEFAULT CHANNEL	ARRIS ENTERPRISES, INC.	15/07/2016	KOLKATA
56	432750	201937052442	12/07/2018	14/07/2017	COOLING COMPOSITION	FIRMENICH SA	31/01/2020	KOLKATA
57	432757	2313/KOLNP/2015	19/12/2013	21/12/2012	MOBILE DEVICE ASSISTED COORDINATED MULTIPOINT TRANSMISSION AND RECEPTION	TELEFONAKTIEBOLA GET LM ERICSSON (PUBL)	01/07/2016	KOLKATA
58	432794	201831008188	06/03/2018 16:16:41		A METHOD OF PRESSURIZED VENTURI TYPE COOLING SYSTEM FOR METAL CUTTING IN AUTOMATIC TUBE CUTTING AND EDGE PREPARATION MACHINE•	BHARAT HEAVY ELECTRICALS LIMITED	13/09/2019	KOLKATA
59	432818	202031022551	29/05/2020 15:01:00		A PROCESS FOR IMPROVING WC-Co BASED HVOF COATING PROPERTIES	BHARAT HEAVY ELECTRICALS LIMITED	03/12/2021	KOLKATA
60	432820	201637009045	20/08/2014	20/08/2013	METHOD FOR DIAGNOSING TUBERCULOSIS IN A URINE SAMPLE	UNIVERSITY OF CAPE TOWN	01/07/2016	KOLKATA
61	432821	202131013652	27/03/2021 14:33:26		PLA-R-PCL BASED SHAPE MEMORY, ELASTOMERIC COMPOSITES AND METHOD OF PREPARATION THEREOF	INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI	22/07/2022	KOLKATA

62	432847	202137045666	10/04/2019	10/04/2019	ELECTRONICALLY CONTROLLABLE RESISTOR	CLOSED-UP JOINT-STOCK COMPANY DRIVE	14/01/2022	KOLKATA
63	432856	201838042039	06/04/2011	09/04/2010	MDCT-BASED COMPLEX PREDICTION STEREO CODING	DOLBY INTERNATIONAL AB	08/03/2019	KOLKATA
64	432858	602/KOL/2013	24/05/2013 17:03:22		ACTIVE STEER ASSISTING DIFFERENTIAL (ASAD) FOR REAR WHEEL INDEPENDENT DRIVE ELECTRIC VEHICLE (RID EV) USING IN-WHEEL MOTORS.	INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR	28/11/2014	KOLKATA
65	432866	201838042040	06/04/2011	09/04/2010	MDCT-BASED COMPLEX PREDICTION STEREO CODING	DOLBY INTERNATIONAL AB	29/03/2019	KOLKATA
66	432872	201838040825	27/06/2012	01/07/2011	SYSTEM AND METHOD FOR ADAPTIVE AUDIO SIGNAL GENERATION, CODING AND RENDERING	DOLBY LABORATORIES LICENSING CORPORATION	15/02/2019	KOLKATA
67	432877	201838040826	27/06/2012	01/07/2011	SYSTEM AND METHOD FOR ADAPTIVE AUDIO SIGNAL GENERATION, CODING AND RENDERING	DOLBY LABORATORIES LICENSING CORPORATION	15/02/2019	KOLKATA
68	432878	201838040827	27/06/2012	01/07/2011	SYSTEM AND METHOD FOR ADAPTIVE AUDIO SIGNAL GENERATION, CODING AND RENDERING	DOLBY LABORATORIES LICENSING CORPORATION	15/02/2019	KOLKATA
69	432879	201637041726	07/08/2015	29/08/2014	CASTING SAND PROCESSING EQUIPMENT	SINTOKOGIO LTD.	05/05/2017	KOLKATA
70	432881	201838040828	27/06/2012	01/07/2011	SYSTEM AND METHOD FOR ADAPTIVE AUDIO SIGNAL GENERATION, CODING AND RENDERING	DOLBY LABORATORIES LICENSING CORPORATION	15/02/2019	KOLKATA
71	432883	201838040829	27/06/2012	01/07/2011	SYSTEM AND METHOD FOR ADAPTIVE AUDIO SIGNAL GENERATION, CODING AND RENDERING	DOLBY LABORATORIES LICENSING CORPORATION	15/02/2019	KOLKATA

72	432884	201737036098	25/04/2016	27/04/2015	FEEDBACK CONTROL METHOD FOR A FUEL DELIVERY SYSTEM	Vitesco Technologies GmbH	17/11/2017	KOLKATA
73	432887	124/KOL/2014	30/01/2014	04/02/2013	ARRANGEMENT HAVING AT LEAST ONE ELECTRICAL WINDING AND ELECTRIC MACHINE WITH THIS ARRANGEMENT	MIBA SINTER AUSTRIA GMBH	08/08/2014	KOLKATA
74	432907	201637010505	29/08/2014	30/08/2013	METHOD FOR ESTABLISHING WIRELESS LAN COMMUNICATION CONNECTION AND ELECTRONIC DEVICE THEREFOR	SAMSUNG ELECTRONICS CO. LTD.	01/07/2016	KOLKATA
75	432909	201737022169	14/01/2016	16/01/2015	AXIAL FLUX MACHINE	YASA LIMITED	15/09/2017	KOLKATA
76	432910	1283/KOL/2015	14/12/2015 17:17:35	29/12/2014	AN ALUMINIUM ALLOY, MECHANICAL PARTS MADE THEREFROM, AND USE THEREOF	KONE CORPORATION	08/07/2016	KOLKATA
77	432911	201834021866	12/06/2018 12:09:05	16/08/2017	CHIP STRUCTURE INCLUDING HEATING ELEMENT	SAMSUNG ELECTRONICS CO., LTD.	29/03/2019	KOLKATA
78	432912	201834022059	13/06/2018 12:20:38	14/08/2017	CIRCUIT BOARD AND SEMICONDUCTOR PACKAGE USING THE SAME	SAMSUNG ELECTRONICS CO., LTD.	29/03/2019	KOLKATA
79	432913	201637012276	08/10/2014	18/10/2013	SPRING FORMING DEVICE AND FORMING METHOD	NHK SPRING CO., LTD.	08/07/2016	KOLKATA

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