

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311051533 A

(19) INDIA

(22) Date of filing of Application :01/08/2023

(43) Publication Date : 01/09/2023

(54) Title of the invention : SMART IOT DEVICE FOR CHILD SAFETY AND TRACKING

(51) International classification :A61B0005000000, H04W0004021000, G06N0020000000, H04W0004029000, H04W0004900000

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date

(62) Divisional to Application Number :NA

Filing Date :NA

(71)Name of Applicant :

**1)Chitkara University**

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

**2)Bluest Mettle Solutions Private Limited**

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)MISHRA, Rahul**

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

**2)SINGH, Dhiraj**

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

**3)SHARMA, Manish**

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

(57) Abstract :

The current invention discloses an IoT-based child tracking systems revolutionize child safety by combining wearable devices, mobile applications, and cloud servers to provide real-time tracking, location updates, and physiological monitoring. Parents can easily keep track of their child's whereabouts through a user-friendly mobile app, receive geofencing alerts, and even access historical tracking data for behavioral analysis. With secure data transmission and integration with smart home devices, these systems offer comprehensive safety features and peace of mind for parents, ensuring the well-being and protection of their children in various settings. The system also offers additional features such as a panic button for emergencies, machine learning algorithms for behavior analysis, and the ability to be used in various settings. The IoT-based child tracking systems provide real-time tracking, data analysis, and customizable alerts to ensure the safety and well-being of children in different environments.

No. of Pages : 19 No. of Claims : 17