

(54) Title of the invention : COMPACT IOT GPS TRACKING SYSTEM FOR CHILDREN SECURITY

<div>(51) International classification :G08B0021020000, H04W0004029000, H04W0004020000, H04W0004380000, H04L0067520000</div> <div>(86) International Application No :NA</div> <div>(87) International Publication No : NA</div> <div>(61) Patent of Addition to Application Number :NA</div> <div>(62) Divisional to Application Number :NA</div>		<div>(71)Name of Applicant : 1)Mr. NITHIN KUMAR R Address of Applicant :Assistant Professor, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 2)Mr. SUNDARESAN B 3)ADHAVAN TSB 4)RAJESH R 5)VEZHAVENDHAN V 6)CHILAKA VINAYA BABU 7)LIKHIT THAKUR .S 8)SURYA .P Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Mr. NITHIN KUMAR R Address of Applicant :Assistant Professor, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 2)Mr. SUNDARESAN B Address of Applicant :Assistant Professor, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 3)ADHAVAN TSB Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 4)RAJESH R Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 5)VEZHAVENDHAN V Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 6)CHILAKA VINAYA BABU Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 7)LIKHIT THAKUR .S Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 ----- 8)SURYA .P Address of Applicant :UG Scholar, Dept Of CSE, Velammal Institute of technology, Chennai-kolkottaNational highway, Panchetti, ponneri, Thiruvallur(DT)-601204 -----</div>
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(57) Abstract :
At the core of our solution is a discreet and compact GPS tracker, purposefully designed for easy wearability by children. This tracker is equipped with advanced functionalities that facilitate real-time location updates sent to parents' mobile devices via SMS at regular intervals, typically every 2 minutes, whenever the child strays beyond a predefined safe zone. This proactive monitoring approach empowers parents with continuous awareness of their child's whereabouts. Furthermore, our system integrates cutting-edge Internet of Things (IoT) technology, seamlessly combining the GPS tracker with a dedicated mobile application. This application offers a user-friendly interface for parents, enabling them to track their child's location in real time and ensuring swift responses to any unexpected movements or incidents. The incorporation of cloud-based IoT infrastructure enhances the system's effectiveness by providing instant access to the child's location data, thereby optimizing monitoring and response capabilities. Additionally, the utilization of GSM technology enhances communication reliability, ensuring the timely and accurate delivery of SMS alerts to parents.

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