

(54) Title of the invention : GEO-FENCING BASED TRANSPORT VEHICLE MANAGEMENT SYSTEM AND METHOD THEREOF

<p>(51) International classification :G08B0025010000, G08G0001010000, G08G0001123000, H04W0004029000, G06Q0010060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :  <b>1)Chitkara University</b>  Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>2)Chitkara Innovation Incubator Foundation</b>  Name of Applicant : NA  Address of Applicant : NA</p> <p>(72)Name of Inventor :  <b>1)SHARMA, Gaurav</b>  Address of Applicant :Associate Professor, Department of Interdisciplinary Courses in Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>2)GOEL, Raghav</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>3)GARG, Adish</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>4)AGGARWAL, Shivam</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>5)KHAN, Fahaam</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>6)SAHNI, Jashan Singh</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>7)GOYAL, Harsh</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>8)JAIN, Chirag</b>  Address of Applicant :UG Student, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----  <b>9)A. ANITHA</b>  Address of Applicant :Sr. Assistant Professor, Department of Electronics and Communication Engineering, CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatnam (M), Rangareddy (D), Hyderabad, Telangana - 501510, India. Hyderabad -----</p>
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(57) Abstract :  
A system (100) for transport vehicle management is disclosed that focuses on real-time monitoring, safety, and rapid incident response. The system (100) receives real-time data from a sensor (102), extracting the vehicle's location to ensure adherence to predefined routes. Notifications, based on the location data, are generated and promptly transmitted to relevant entities. Simultaneously, signals from collision detection sensors (104) are received and analyzed in real-time, identifying sudden changes in velocity indicative of potential accidents. In the event of an accident, the system (100) triggers an alert, rapidly transmitted to an associated authority. This establishes a comprehensive framework for proactive transport vehicle management, emphasizing safety, adherence to routes, and swift response to critical incidents.

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