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TITLE OF INVENTION	GPS LIVE VEHICLE TRACKING AND SPEED CONTROL: GPS LIVE VEHICLE TRACKING SYSTEM AND SPEED CONTROL OF THE VEHICLE BASED ON MAXIMUM PERMISSIBLE SPEED OF THE PARTICULAR ROAD, LIVE VEHICLE LOCATION AND SPEED UPDATION TO THE OWNER' S MOBILE.
FIELD OF INVENTION	MECHANICAL ENGINEERING
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(54) Title of the invention : GPS LIVE VEHICLE TRACKING AND SPEED CONTROL: GPS LIVE VEHICLE TRACKING SYSTEM AND SPEED CONTROL OF THE VEHICLE BASED ON MAXIMUM PERMISSIBLE SPEED OF THE PARTICULAR ROAD, LIVE VEHICLE LOCATION AND SPEED UPDATION TO THE OWNER • S MOBILE.

<p>(51) International classification :G08G1/00</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p style="padding-left: 20px;">Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)GUMMA V L PRASAD (ASSISTANT PROFESSOR AUTOMOBILE ENGINEERING)</p> <p style="padding-left: 20px;">Address of Applicant :VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, VIGNANA JYOTHI NAGAR, PRAGATHI NAGAR, NIZAMPET, HYDERABAD, TELANGANA - 500090, INDIA. E-Mail: prasad_gvl@vnrvjiet.in Telangana India</p> <p>2)Dr. A.V.S.S. KUMARA SWAMI GUPTA (PROFESSOR & HEAD MECHANICAL ENGINEERING)</p> <p>(72)Name of Inventor :</p> <p>1)GUMMA V L PRASAD (ASSISTANT PROFESSOR AUTOMOBILE ENGINEERING)</p> <p>2)Dr. A.V.S.S. KUMARA SWAMI GUPTA (PROFESSOR & HEAD MECHANICAL ENGINEERING)</p>
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(57) Abstract :

Patent Title: GPS LIVE VEHICLE TRACKING AND SPEED CONTROL: GPS LIVE VEHICLE TRACKING SYSTEM AND SPEED CONTROL OF THE VEHICLE BASED ON MAXIMUM PERMISSIBLE SPEED OF THE PARTICULAR ROAD, LIVE VEHICLE LOCATION AND SPEED UPDATION TO THE OWNER • S MOBILE. ABSTRACT Our Invention GPS LIVE VEHICLE TRACKING AND SPEED CONTROL: is a vehicle tracking, speed controlling, real-time location system makes use of a 3-G,4-G mobile network for each covering a predetermined area. The invented system includes a mobile signal processing units for installation at hidden locations in vehicles to be monitored. Each unit is connected more the two different sensors in the vehicle, at least one of the sensors being a break-in detector for detecting tampering with the vehicle, and to a mobile antenna, and includes a controller for monitoring the sensor outputs and initiating an emergency message transmission to a remote monitoring station in the event of actuation of a sensor. And also a vehicle locating and alarm system that enables the user to remotely access the vehicle and, if need be, activate an alarm system therein. This system also automatically calls one or more pre-programmed mobile numbers upon the occurrence of certain events, such as a collision or other emergency. The remotely accessing the vehicle by mobile or computer, the user is, upon entering a valid Personal Identification Number (PIN), supplied with the vehicles location, speed and a command option menu for alarm and deterrent device control. The invention is to Raspberry Pi / Arduino based GPS tracking is used to alert the driver about the speed limit of the road when vehicle enters into the particular road and detect the speed of the vehicle based on the road type and control the vehicle speed according to the given speed limit of the particular road or location. The invention is to take the picture (with number plate) of the wrongly parked vehicles on the road margin with help of camera and sensor attached to the front of the vehicle which passing the wrongly parked vehicle and share the picture, location to RTO they can raise the challan it eases the function of the RTO and help to control the wrongly parked vehicles. The invention is to identify the condition of the road and pot holes with the help of sensor, capture the picture and location to share the RTO about the road condition so that they can repair the road immediately and avoid the inconvenience to the commuters. The invention is to take the picture of vehicle if any vehicle met with an accident or any obstruction on the road like fallen trees etc. in such case the picture and location will be shared to RTO, also sends information to 108 (ambulance) service. The invention is to stop the drunken drive. An alcohols breathe analyser and face recognition sensor/camera installed at the vehicle dash board and interface with start or ignition system. The driver has to exhale his breathe first near the breath analyser. If it founds no alcohol percentage or within the permissible level the start/ignition system activates otherwise no access and monitors the driver authentication.

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