

(54) Title of the invention : IOT BASED TECHNIQUE FOR SAFEGUARDING FUEL IN VEHICLES

(51) International classification :H04L0029080000, B60K0015030000, F02M0037100000, G07C0009000000, B60K0015040000

(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 :
 IOT BASED TECHNIQUE FOR SAFEGUARDING FUEL IN VEHICLES The current invention is an IoT-based system for safeguarding fuel in motor vehicles. The system consists of a control device installed on the fuel tank lid that allows remote control of the fuel tank lid opening and shutting. The control device consists of a microcontroller unit linked to a number of IoT sensors, as well as a GSM module for data transfer between the authorized user and the control device. The control device additionally includes a microcontroller unit that can perform a variety of tasks, as well as a motor that is integrated with the microcontroller unit and can lock or unlock the fuel tank lid in response to a signal from an authorized user. The user's mobile device is loaded with an application that monitors and tracks the actions in the fuel tank. The measured fuel data is stored and analyzed on a cloud-based database server.

No. of Pages : 12 No. of Claims : 7