Patent Search

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Abstract:

Abstract Title IoT-Based Fingerprint Engine Ignition for Motor Vehicle The current invention relates to a portable, inexpensive, and small fingerprint engine ignition sy vehicles that use the Internet of Things. The goal of the current invention is to address issues with IoT-based engines for motor vehicles that existed in prior art techn are utilising an ATMEGA328P-PN microcontroller in this instance. The microprocessor is attached to the LCD display in addition to the push buttons, starter motor, an sensor. This system automates access control and vehicle security by employing a fingerprint-based mechanism. Additionally, the present invention includes an intell that uses a tire pressure monitoring system to alert the driver of the state of the tire's air pressure (TPMS).To further check for any explosive items inside the vehicle, trace detectors (ETDs) have been introduced. Additionally, SRS Airbag sensors have been integrated into the system to check the condition of the airbag; if everything the vehicle will only start at that point; if not, the device will send an SMS notice via the GSM module. Using Wi-Fi or another wireless network, all data is transmitted t verified user. The current invention's BMS or Intelligent circuit will prevent the overcharging and over-discharging issues in addition to the short circuit issue, making t embodiment completely safe when there is no opportunity to get a short circuit. A unique code has been implemented to the microcontroller through the IDE Interfa microcontroller will work according to the code.

Complete Specification

Description:DETAILED DESCRIPTION OF THE PRESENT INVENTION
[0018] The present invention is related to small, portable, and cost-effective IoT Based Fingerprint Engine Ignition in Motor vehicles.
[0019] Figure 1 shows a detailed workflow diagram representation of Small, portable, and cost-efficient IoT Based Fingerprint Engine Ignition in Motor vehicles. Alth the present disclosure has been described with the purpose of Small and low-cost IoT Based Fingerprint Engine Ignition in Motor vehicles. It should be appreciated same has been done merely to illustrate the invention in an exemplary manner and to highlight any other purpose or function for which explained structures or configurations could be used and is covered within the scope of the present disclosure.
[0020] IoT Based Fingerprint Engine Ignition in Motor vehicles is disclosed in this disclosure.
[0021] Due to an increase in vehicle thefts, vehicle security is a crucial issue today. The handling of vehicle keys is yet another problem. Carrying keys is necessary a or misplacing them will result in a serious problem. Using a fingerprint-authenticated vehicle starter system, we here suggest a solution to this issue.
[0022] The system offers a hassle-free and secure method of starting and stopping a vehicle's engine. No key is required; the user only needs to scan their finger to the vehicle. The system restricts who can start the vehicle to those who are authorised. First, users must register with the system by having their fingerprints scanne
[0023] It is possible for multiple users to register as authorised users on the system. As soon as the system enters monitoring mode, it looks for users who want to Only authorised users are allowed to start the vehicle after scanning, and the system verifies this upon scanning.
[0024] Here, we're using an ATMEGA328P-PN microcontroller. In addition to the LCD display, push buttons, starter motor, and fingerprint sensor, the microcontrolle connected to the LCD display

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