Patent Search

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Abstract:

ABSTRACT: Title: Fingerprint Based Vehicle Anti-Theft Detection and Alerting System Vehicle theft remains a persistent concern, prompting the need for innovative se solutions. This paper introduces an innovative fingerprint-based vehicle anti-theft detection and protection system which is designed to fortify vehicle security by leve advanced biometric technology. The system integrates a fingerprint scanner within the vehicle, creating a robust authentication process that grants access only to au individuals. Through a comprehensive control unit, the system manages the fingerprint authentication, vehicle locking mechanisms, engine immobilization, and alarm The enrollment phase involves capturing the owner's fingerprints to establish a template, while the authentication phase uses this template to permit access. Unauth access attempts activate stringent anti-theft measures, including alarms and engine immobilization. The system's multi-layered approach offers enhanced security ar convenience for vehicle owners, deterring potential thieves and reducing the risks associated with traditional key-based systems. However, challenges such as reliabil integration must be carefully addressed during implementation. This fingerprint-based system represents a promising advancement in vehicular security, promising i protection against theft and unauthorized access.

Complete Specification

Description:DESCRIPTION:

Field of Invention

The present invention relates to the field of automotive security and biometric technology. Specifically, it pertains to a fingerprint-based vehicle anti-theft detection alerting system. This invention addresses the growing need for advanced security mechanisms to prevent unauthorized access and use of vehicles, utilizing biometr authentication and IoT technologies to ensure the safety and security of vehicles.

This invention is designed to combat vehicle theft by integrating fingerprint recognition systems with real-time monitoring and alerting mechanisms. The system op by authenticating the registered user's fingerprint to enable vehicle ignition, ensuring that only authorized individuals can operate the vehicle. By leveraging IoT cap the system also provides instant alerts and location tracking in case of unauthorized access attempts.

This innovative solution bridges the gap between traditional vehicle security measures and modern technology. By incorporating biometric authentication, the inve ensures a high level of security while maintaining user convenience. The system's IoT features further enhance its functionality, making it a robust solution to vehicl

Objective of the Invention

The primary objective of this invention is to provide a secure and reliable method to prevent unauthorized access to vehicles. The system achieves this by utilizing fingerprint authentication technology to ensure that only registered users can start and operate the vehicle. This significantly reduces the risk of vehicle theft and unauthorized use, offering a higher level of security than conventional locking mechanisms.

Another objective is to provide a comprehensive alerting system that notifies the vehicle owner and designated contacts in case of unauthorized access attempts. B

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