

ABSTRACT OF THE DISCLOSURE
BIOMETRIC IMMOBILIZER FOR AUTOMOBILES

A biometric immobilizer for automobiles is disclosed. The biometric immobilizer comprises a bio-fingerprint authentication unit including an embedded fingerprint biometrics processing unit and a sensor capable of capturing human fingerprint biometric pattern, and a flash memory able to store biometric data and information, wherein the bio-fingerprint authentication unit having a typical biometrics verification; and an embedded immobilizer controller communicate closely with the bio-fingerprint authentication unit to perform biometric fingerprint enrollment, biometric fingerprint verification operation, and bio-data management, wherein the embedded immobilizer controller establishes a secure communication protocol between the embedded immobilizer controller and the bio-fingerprint authentication unit to prohibit illegal access to the bio-fingerprint authentication unit, and generates a secure communication key between the bio-fingerprint authentication unit and the embedded immobilizer controller. The biometric immobilizer provides anti-hijacking protection to further protect the driver from anti-hijack while in driving state.

(FIG. 1)