Patent Search

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Inventor

Name	Address	Country	I
Dr. V. Siddhartha	Vishnu Institute of Technology, Kovvada, Bhimavaram, West Godavari District, Andhra Pradesh, India, 534202	India	I
E. Komali	Vishnu Institute of Technology, Kovvada, Bhimavaram, West Godavari District, Andhra Pradesh, India, 534202.	India	I
G. Naga Sai Ramya	Vishnu Institute of Technology, Kovvada, Bhimavaram, West Godavari District, Andhra Pradesh, India, 534202.	India	I
B. Malini	Vishnu Institute of Technology, Kovvada, Bhimavaram, West Godavari District, Andhra Pradesh, India, 534202.	India	I

Applicant

Name	Address	Country
Vishnu Institute of Technology	Vishnu Institute of Technology, Vishnupur, Bhimavaram Andhra Pradesh India 534202 deanrnd@vishnu.edu.in 8309117085	India

Abstract:

SYSTEM AND METHOD FOR SECURE MOBILE ELECTRONIC DEVICE CHARGING ABSTRACT A system (100) for secure charging of a mobile electronic device is disclosed. (100) comprising a charging compartment (102) associated with placement of a mobile electronic device during a charging session; an input interface (104) to receive entered by a user; a biometric sensing unit (106) to capture biometric data corresponding to the user. The system (100) is configured to receive and authenticate the and the captured biometric data; generate a locking control upon successful validation of both the password and the biometric data; permit supply of electrical powe the mobile electronic device; and generate an unlocking control signal to unlock the charging compartment (102) upon re-authentication of the password and the bio corresponding to the same user. The system (100) provides enhanced security for the mobile electronic device charging by enforcing dual-factor authentication and c access within an autonomous secured enclosure. Claims: 10, Figures: 4 Figure 1A is selected.

Complete Specification

Description:

BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to electronic security and access-controlled charging and particularly to a system and method for se charging of a mobile electronic device.

Description of Related Art

[002] Mobile electronic devices have become essential tools for communication, navigation, and access to digital services. Due to extensive daily usage, mobile electronic devices often experience rapid battery depletion, particularly in public environments such as transportation hubs, educational institutions, and commerc

[003] Users frequently face difficulty in obtaining a safe and reliable facility for battery recharge when access to personal power source is unavailable, that create inconvenience and risk of device unavailability during critical situations.

[004] Several systems exist that provide public access to device power supply through shared sockets, open charging points, or locker-based arrangements. Cert solutions employ mechanical locks, password-based access, or biometric identification to restrict access to a device storage compartment.

[005] Other solutions rely on centralized control units that authorize a user before allowing access to a device enclosure. These systems aim to provide temporar storage and power supply to mobile electronic devices in public locations.

[006] Open charging points expose mobile electronic devices to theft and unauthorized access. Systems that rely on single-factor authentication lack adequate s

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