Abstract

A System and Method for Sharing Access to an Electronic Lock

The present invention discloses an electronic lock configured for securing an entry point of at least one of an object, a property and a key installation, the electronic lock comprising a lock controller, a wireless transceiver configured to communicate with at least one of an access management system and a mobile device over a communication network, a memory coupled to the lock controller; and a mechanical actuator coupled to a physical locking mechanism; and at least one sensor configured to detect a condition associated with the electronic lock. The lock controller is configured to receive, via the wireless transceiver, an access credential associated with a grantee and an access right for the grantee from the access management system;, store, in the memory, data associated with the access credential;, receive, from at least one of the mobile device and the access management system, input authentication data associated with the grantee, determine, based on comparison of the input authentication data with at least a subset of the data stored in the memory, whether the grantee is authorized to perform a privileged action on the electronic lock; and upon a positive determination, control the mechanical actuator to perform the privileged action so as to unlock or lock the physical locking mechanism.

(Fig. 9)