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(57) Abstract :

The present invention discloses a system (100) for authenticating electronic lock (102) using unmanned aerial vehicle (UAV) (104). The system includes an electronic lock (102) is installed doorway or near a restricted area to prevent unauthorized entry. The electronic lock (102) includes an input unit (202) configured to receive authentication information input by a user (110). Further, the system includes an unmanned aerial vehicle UAV (104) is communicatively coupled to a ground control station GCS (106) through a network (108). The UAV (104) configured to authenticate user credentials using an authentication unit (204). The GCS (106) is configured to dispatches the UAV (104) at the location of electronic lock (102). The UAV (104) is configured to transmit a control signal to the electronic lock (102) for granting or denying access to the restricted area.

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