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(57) Abstract:

Abstract SMART IMPERCEPTIBLE DOOR CLOSING SYSTEMS WITH INTEGRATED MONITORING DEVICES are solutions to the problem faced in the area of security and spying by monitoring a desired area and sending real-time processed data to a remote server such that the monitoring system is not easily discernible to human eyes. This invention relates to affordable monitoring systems implanted inside two unique door closing system designs to provide wide and clear footage with audio recordings for imperceptible security and spying. A monitoring system consisting of camera and microphone encapsulated in a door closer system comprising oil operated hydraulic cylinder where the spring is present along with reciprocating Piston which is operated by a rack and pinion mechanism, an arm assembly connecting the door with door closer unit and the lever on the door frame by screwing means. The said door closer having the stereotyped mechanism to close the door after set open along with the monitoring system affiliated with the mechanism of the door closer. Wherein the sensor module tracks the movement of the door and sends the data to the controller which then controls camera module according to the algorithm specified while facilitating energy efficiency. The present invented system also uses microphone module for detecting human presence by sensing human voice spectrum and thereby using it in the algorithm to control the modules and to monitor the installed area. The present invention is also capable of transmitting alerts or warnings to the server in the event of detection of unknown or unwanted person.

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