

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 11/03/2020

(21) Application
No.202041010349 A

(43) Publication Date :
13/03/2020

(54) Title of the invention : UNMANNED AERIAL VEHICLE (UAV) TO AUTONOMOUSLY AND WIRELESSLY MONITOR SECURITY

(51)
International B64C039020000,H02J0067350000,H02S0010200000,G05D0001100000,H02P0066102000
classification
(31) Priority
Document NA
No
(32) Priority NA
Date
(33) Name
of priority NA
country
(86)
International
Application NA
No NA
Filing
Date
(87)
International
Publication NA
No
(61) Patent
of Addition
in
Application NA
Number NA
Filing
Date
(62)
Divisional to
Application NA
Number NA
Filing
Date

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(57) Abstract :

An unmanned aerial vehicle (UAV) autonomously and wirelessly monitors security within premises. The UAV includes a body, brushless dc motors (BLDC), a motor control dispatcher, a flight control board, sensors, wind propellers, solar panel, and a battery. The body uses a high landing gear/acid to provide friction during flight maneuverability of the UAV. The BLDC actuates a rotor blade of the UAV, electrical wirings and connectors. The motor control dispatcher transmits signals to the BLDC. The flight control board controls the BLDC and sensors. The flight control board estimates the velocity of the UAV and orientation and position of the UAV. The wind propellers generate thrust and torque to facilitate the UAV to fly and to maneuver. The solar panel captures and converts solar energy into direct current (DC) electric energy. The battery stores the DC electrical energy and powers the UAV. The most illustrative drawing: FIG. 1.

No. of Pages : 26 No. of Claims : 9