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(57) Abstract :

A smart fan cleaning system, comprising, a body 1 equipped with a base 4 connected to a ceiling via a telescopic rod 2, wherein the rod 2 extends/retracts in a user defined manner, plurality of blades 3 connected via motorized telescopic blade arms 5 for circulating air, an artificial intelligence (AI) based camera 6 installed on the base 4 for capturing dust level on the base 4 and blades 3, a laser sensor for detecting tilt angle of the blades 3, a microcontroller connected to the camera 6 and laser sensor for receiving combined signals from the camera 6 and sensor, wherein the microcontroller compares the detected signals with a threshold level, a user platform for receiving the alert and inputting a command for cleaning of the body 1, a passive infrared sensor (PIR) sensor installed on the body 1 for detecting proximity of the body 1 with the user. Ref Figure 1

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