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(57) Abstract :

A self-cleaning ceiling fan system, comprising a housing 101, a linear actuator 102 with a fan hub 103 encased within a body 104, a plurality of internal cavities 105 to allowing passage of fan blades 106 through the cavities 105, an inspection unit to continuously monitor environmental and operational parameters, a self-cleaning arrangement to individually service each fan blade 106 during a cleaning cycle, a sterilization unit to sanitize the fan blades 106 and the internal cavity 105 during or after the cleaning cycle, a safety monitoring module to detect obstacles, user presence, and improper blade positioning and to prevent deployment or operation of the fan blades 106 under unsafe conditions, and a battery backup unit to retract and secure the fan blades 106 into the body 104 during a power failure.

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