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Track Name: ICACECS2024

Paper ID: 640

Paper Title: DIRT DEFENDER CEILING FAN

Abstract:

Dirt Defender Ceiling Fan system, a revolutionary approach to simplify the upkeep of ceiling fans commonly found in homes and commercial spaces. In response to the persistent issue of fan blades accumulating dust and debris, which can not only diminish their efficiency but also present a daunting cleaning task, this innovative system employs cutting-edge technology and design features to provide a practical solution. The heart of the system lies in its ability to autonomously detect dust accumulation through specialized sensors, akin to the way our eyes perceive things. When these sensors identify a significant amount of dust on the fan blades, they promptly send a message to a dedicated mobile app specifically tailored for self-cleaning ceiling fans. Users are then empowered to take control with a simple tap on the app, initiating the cleaning process. This operation relies on clever mechanical components that employ small brushes or rubber wipers to gently and effectively clean the fan blades, ensuring they remain dust-free. What sets this system apart is its integrated dust collection mechanism, wherein the removed dust is efficiently stored in a designated container. This collected dust can be effortlessly released at the user's discretion, eliminating the need for manual cleaning and the associated hassles.

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Thanks,
CMT team.