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(57) Abstract :

ABSTRACT Disclosed is a curtain dirt awareness system 100 comprising an optical dust sensor 102 that detects dust level values on a curtain, a microcontroller 104 in communication with the optical dust sensor 102, which receives data indicative of the detected dust level values, and a display unit operatively connected to the microcontroller 104. The display unit 106 includes an LED matrix display for numerically indicating the dirt level value detected by the optical dust sensor 102, and an LED bar graph display comprising a plurality of segments. Each segment illuminates in many colors, each color corresponding to a predefined dirt level range. The segments are activated in accordance with the dirt level value detected by the optical dust sensor 102 to provide a visual indication of the dirt level.

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