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(57) Abstract :

An automated sanitization and cleaning system (100) for cleaning an escalator's handrail in a building such as a shopping center, plaza, galleria is disclosed. The proposed system (100) includes a motion sensor attached to a handrail (202) of the escalator (200) to detect movement of one or more entities. A reservoir (104) comprising a nozzle (106) disposed near inlet guard (204) of escalator and electrically coupled to control unit (110). A control unit (110) may be provided for controlling spraying of the handrail when a motion sensor senses a person on the escalator. A wireless transmission module (120) may be provided for receiving and transmitting monitoring information to mobile computing devices (112), including the number of sprays within a time period and the amount of liquid in the nozzle (106).

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