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(57) Abstract :
A medicine box, comprising a camera 201, and a RFID scanner 202 that automatically identify and log detailed information of each medicine, a Peltier module and a temperature sensor maintain safe storage conditions, multiple light emitting diodes (LED) 102 generates visual alerts a built-in camera 103 and microphone 104 analyze the user's facial expressions, speech patterns, and physical behavior using machine learning models trained on health-related cues, to continuously monitor for signs of distress of the user, an automated sterilization module employs UV-C light emitters 205 to periodically disinfect internal surfaces and medicine compartments 206, an automated medicine breaker module includes an expandable pulley-platform 203 that adjusts its dimensions in real time to securely hold tablets of various sizes, a set of pneumatic sharp-edged blades 204 with serrated teeth to perform clean and accurate cuts based on the required dose.

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