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Patent Search

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Abstract:

The present invention relates to portable medicine identification and alerting system for visually challenged people. The system according to the present invention consists of a multi-compartment box (110), multiple individual compartments (120), a circuit compartment (130) with circuits and battery, a touch sensor (220), a microcontroller, a text to speech converter IC, an audio output device (260) with an audio amplifier and a buzzer (280) to alert the user. The microcontroller (230) receives signals from the IR sensor (220) and activates the text to speech converter (240) to read out the information of the medicine from the individual compartments (120). The flash memory unit (210) upon matching the pre-defined time, activates the buzzer (280) to give a beep sound which alerts the user that it is time to take medicine.

Complete Specification

Claims: We claim

- The portable medicine identification and alerting system for visually challenged people comprising:
 - a multi-compartment medicine box (110) with preloaded medicine;
 - a touch sensor (220);
 - a microcontroller (230);
 - a text to speech converter IC (240);
 - a circuitry unit (130);
 - a flash memory unit (210);
 - an audio output device (260) with an audio amplifier; and
 - a buzzer (280) to alert the user.
- The multi-compartment medicine box (110) according to claim 1 consists of at least 5 individual compartments for accommodating the medicine.
- The touch sensor (220) according to claim 1 is mounted on the top lid of each compartment.
- The touch sensor according to claim 1 is selected from infrared (IR) sensors.
- The microcontroller (230) according to claim 1 is selected from PICAXE - 40 X2 Microcontroller.
- The circuitry unit (130) according to claim 1 is placed in one of the compartments of the medicine box.

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