FACILITATE TRAFFIC SIGNAL IDENTIFICATION FOR BLIND PEOPLE USING RFID

ABSTARCT

Gadgets helping the disabled, especially blind that are in least accessibility of information, use acoustic methods that can cause stress to ear and infringe user's privacy. Even if some project uses embedded Radio Frequency Identification (RFID) into the sidewalk for blind's free walking, the tag memory design is not specified for buildings and road conditions. This paper suggested allocation scheme of RFID tag referring to EPC global SGLN, tactile method for conveying information, and use of lithium battery as power source with solar cells as an alternative. Results have shown independent mobility, accidents prevention, stress relief and satisfied factors in terms of cost and human usability.

FEATURES:

1. Designed for Intersection of 4 Roads.
2. Timer ON/OFF selection for Night/Day time operation.
3. Variable pass timer for vehicles from 30sec - 60sec.
4. Low power consumption by utilizing LED for signal lamps.
5. Accurate timing, Compact, and low cost.