

(54) Title of the invention : PERSONAL SAFETY AND TRACKING DEVICE WITH ALARM FOR BLIND PERSON

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(57) Abstract :
 Affections in the visual system have the potential to cause vision impairment and, in the worst situations, blindness. This can make it difficult for a person to carry out a number of daily tasks, such as studying, working, and practicing sports. This invention proposes wearable smart technology to assist vision impaired people (VIPs) in navigating public spaces, walking the streets alone, and calling for help. The system includes a warning system through voice rendering and through the generation of vibration. Utilizing a collection of sensors, the system monitors the route and notifies the user of impending obstructions. This invention designed an Eye mask with the purpose of assisting those who are vision impaired. It consists of cellular communication and GPS modules, and a solar panel. When a danger is identified, this device sounds a warning. It locates objects using two ultrasonic transducers. It is a tool that uses impediments within the stick's detection range to direct the user. With the aid of numerous sensors that are built inside it, it will be able to recognize every impediment in the way. The user would be informed of any obstacles along the route via vibrations transmitted by the microcontroller retrieving data. It is an effective tool that will be very helpful to blind individuals. It is a straightforward, affordable, and user-friendly electronic guidance tool that is intended to give blind and visually impaired people a helpful helper and assistance. The technology is effective and special in that it can identify the source and distance of objects that blind people can come across. It is a helpful tool that may fulfill the needs of possible users. Technological developments are radically changing how blind individuals interact with and navigate their environment. Each of these cutting-edge gadgets has a special characteristic that helps users live more freely.

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