

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331006654 A

(19) INDIA

(22) Date of filing of Application :02/02/2023

(43) Publication Date : 10/02/2023

(54) Title of the invention : Supersonic goggles with Arduino nano for blind people.

(51) International classification :A61B0005000000, G06F0003010000, A61F0009020000, A61B0005110000, A61B0005024000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The following is a pair of goggles fitted with an Arduino board. The main purpose of the assembly of these goggles is to assist blind people. The pair of goggles are fitted with an Arduino board which has been coded in a specific way. There is also a buzzer and vibration motor attached along with the knobs. The UV sensor fitted in the front is designed in a way to collect information about the objects at a particular distance. The UV sensor has two units, a transmitter, and a receiver. The transmitter functions by sending UV signals, the signals sent by the transmitter are then reflected from any object in the front and are then received by the receiver. The received signals are then processed by the coded Arduino board which can calculate the distance and if any object comes near a 1m distance, then the Arduino board activates the vibrating sensor and the sound buzzer. Therefore this will notify the person wearing the device about any specific object in front of him.

No. of Pages : 9 No. of Claims : 3