

(54) Title of the invention : SMART GLOVES FOR VISUALLY IMPAIRED PEOPLE

(51) International classification :G09B0021000000, A61H0003060000, G01S0015930000, G01S0015880000, A41D0019000000 (31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (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	(71)Name of Applicant : 1)P.CHITRA Address of Applicant :SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, JEPPIAAR NAGAR, RAJIV GANDHI ROAD, CHENNAI-600 119, TAMILNADU, INDIA. Tamil Nadu India 2)P.KAVIPRIYA 3)M.R.EBENEZAR JEBARON 4)S.LAKSHMI 5)K.SRILATHA 6)M.SUMATHI 7)LAKSHMI PRIYA (72)Name of Inventor : 1)P.CHITRA 2)P.KAVIPRIYA 3)M.R.EBENEZAR JEBARAN 4)S.LAKSHMI 5)K.SRILATHA 6)M.SUMATHI 7)LAKSHMI PRIYA
---	--

(57) Abstract :

Smart gloves based Human Machine Interface (HMI) system can be developed for visually challenged people in order to help them walk more confidently. It is very helpful when somebody wants to convey a message to a person with blindness, the system consists of the smart glove to receive messages. On the other side, the unimpaired interlocutor sends and receives messages by means of a computer, i.e., a tablet or Smartphone, which implements a voice recognition system. The idea behind this system is to develop smart walking gloves that alerts visually-impaired people over obstacles, pits thus this device could help them in walking with less accident. The Smartphone is an afferent human-machine interface (HMI) for the unimpaired interlocutor. The stimulating smart glove is an efferent HMI for the blind individual. The wireless communication is done by Bluetooth link. Ultrasonic sensor can be fixed in the gloves which has an ability to determine the distance of the object with high accuracy. The signal from the sensor is send to the arduino micro board.-The Arduino board has Bluetooth which is used to link with the interlocutor. The sensor widely used for the blind because it does not affected by environmental noise. The wireless link to the HMI overcomes the noise limitations of the environment and even the lack of visual between sender and receiver.

No. of Pages : 5 No. of Claims : 2