

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111024976 A

(19) INDIA

(22) Date of filing of Application :04/06/2021

(43) Publication Date : 10/03/2023

(54) Title of the invention : WEARABLE ASSISTIVE DEVICE FOR NAVIGATION

(51) International classification	:A61H0003060000, G09B0021000000, H04N0005225000, H04N0005232000, A61B0005000000	(71)Name of Applicant : <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)SHIVANI</b>
(32) Priority Date	:NA	<b>2)VERMA, Vishal</b>
(33) Name of priority country	:NA	<b>3)DIVANSHU</b>
(86) International Application No	:NA	<b>4)SHARMA, Bhanu</b>
Filing Date	:NA	<b>5)PANDEY, Rahul</b>
(87) International Publication No	: NA	<b>6)MADAN, Jaya</b>
(61) Patent of Addition to Application Number	:NA	<b>7)SHARMA, Deepika</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a wearable assistive device for navigation (100) of a visually impaired user. The wearable assistive device includes a clothing (102) adapted to be worn by the user, a light detection and ranging sensor (104), configured to detect position of an obstruction, an imaging sensor (106), configured to detect a set of features pertaining to the obstruction and an output device (108) configured to transmit a set of audio signals to the user, the audio signals pertaining to a set of instructions guiding the user. The wearable assistive device (100) includes a processing unit (110), configured to receive the set of range signals and the set of imaging signals and enabled to transmit a set of output signals to the output device (108). The wearable assistive device (100) is configured to be activated or deactivated by a set of input signals from a switch, enabled to be operated by the user. A power source is configured to provide electric power to the wearable assistive device (100).

No. of Pages : 24 No. of Claims : 6