

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111023201 A

(19) INDIA

(22) Date of filing of Application :25/05/2021

(43) Publication Date : 03/03/2023

(54) Title of the invention : APPARATUS AND METHOD FOR ASSISTING VISUALLY IMPAIRED USER

(51) International classification	:H04R0001080000, G06K0009000000, G11B0027034000, G06K0009200000, G02B0030260000	(71) <b>Name of Applicant :</b> <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) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)KUMAR, Sandeep</b>
(33) Name of priority country	:NA	<b>2)DUTTA, Rubina</b>
(86) International Application No	:NA	<b>3)GUPTA, Ravi</b>
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	

(57) Abstract :

The present disclosure relates to an apparatus (100) for assisting a user, the apparatus includes a frame (102) adapted to be worn on neck part of the user, an image capturing unit (104) captures a set of images of objects in the vicinity of the user and a microcontroller (106) receives, from the image capturing unit, the set of images of objects in the vicinity of the user. The microcontroller extract, from the receive set of images, physical attributes of the objects, compare the extracted physical attributes of the objects with a reference set of attributes to extract a set of values, wherein, upon detection of the set of values of the object in the vicinity of the user, the microcontroller configured to generate an audio signal pertaining to real-time information of the objects is transmitted to an earpiece (110) of the user.

No. of Pages : 16 No. of Claims : 9