

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202411082811 A

(19) INDIA

(22) Date of filing of Application :29/10/2024

(43) Publication Date : 15/11/2024

(54) Title of the invention : WEARABLE ROAD SAFETY DEVICE FOR TWO-WHEELER RIDERS

(51) International classification :B62J27/00, B62J45/40, B62J45/41, G06T7/00, G06V10/00

(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)Noida Institute of Engineering & Technology
 Address of Applicant :Plot No.-19, Knowledge Park-2, Institutional Area, Greater Noida (UP)-201306, India. Greater Noida -----

Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Kumud Saxena
 Address of Applicant :Department of Computer Science and Engineering, Noida Institute of Engineering & Technology, Plot No.-19, Knowledge Park-2, Institutional Area, Greater Noida (UP)-201306, India. Greater Noida -----

2)Sovers Singh Bisht
 Address of Applicant :Department of Computer Science and Engineering (Data Science), Noida Institute of Engineering & Technology, Plot No.-19, Knowledge Park-2, Institutional Area, Greater Noida (UP)-201306, India. Greater Noida -----

3)Bhawna Wadhwa
 Address of Applicant :Department of Computer Science and Engineering (Cyber Security), Noida Institute of Engineering & Technology, Plot No.-19, Knowledge Park-2, Institutional Area, Greater Noida (UP)-201306, India. Greater Noida -----

(57) Abstract :

A wearable road safety device for two-wheeler riders comprises a wearable body 1 developed to be worn by an user driving a two-wheeler, a pair of straps 2 are attached with the body 1 for securing the body 1 around wrist portion of the user in order to secure the body 1 on the wrist portion, multiple pressure sensors detecting pressure applied by the body 1 and straps 2 on the wrist portion, a pair of motorized rollers 3 integrated within the body 1 and straps 2 for rotating on its axis to properly fit the body 1 and straps 2 , a microphone 4 embedded within the body 1 for user input, an artificial intelligence-based imaging unit 5 installed on the body 1 detect presence of sharp curves, a rain detection sensor installed on the body 1 for monitoring intensity of rainfall in surrounding.

No. of Pages : 15 No. of Claims : 2