

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211016485 A

(19) INDIA

(22) Date of filing of Application :24/03/2022

(43) Publication Date : 02/02/2024

(54) Title of the invention : AUTOMATIC ASSISTIVE DEVICE FOR PHYSICALLY IMPAIRED

(51) International classification	:A61G0005100000, A61G0005000000, A61G0005120000, A63B0071000000, A61H0001020000	(71)Name of Applicant : <b>1)Chandigarh Group of Colleges, Jhanjeri</b> Address of Applicant :State Highway 12A Jhanjeri, Sahibzada, Ajit Singh Nagar, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Neha Sharma</b>
(32) Priority Date	:NA	<b>2)Anchal Sharma</b>
(33) Name of priority country	:NA	<b>3)Khushbu</b>
(86) International Application No	:NA	<b>4)Amandeep Kaur</b>
Filing Date	:NA	<b>5)Erina</b>
(87) International Publication No	: NA	<b>6)Bhasker Pratap Choudhary</b>
(61) Patent of Addition to Application	:NA	<b>7)Neha Baryah</b>
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an automatic assistive device for physically impaired, comprises of a wheelchair 1 enabling mobility of physically impaired users, an ultrasonic sensor 2 for determining distance in between wheelchair 1 and a platform, a pair of telescopic rods 3 layered with slider arrangement 4 integrated with a seat portion 5 which slides seat to reach in proximity of platform, a W-shaped supporting unit 6 initially arranged in a parallel orientation and upon detection of within proximal distance directs hinges 13 to arrange supporting unit 6 perpendicular to seat, the hinges 13 to move back supporting unit 13 to an initial state when user's legs are detected to be successfully accommodated using image capturing module 7 and a back rest 8 attached through a motorized ball and socket joint 9 to provide required inclination to user based on user's requirement.

No. of Pages : 17 No. of Claims : 6