

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211064873 A

(19) INDIA

(22) Date of filing of Application :12/11/2022

(43) Publication Date : 02/12/2022

(54) Title of the invention : CLIMBING ASSISTIVE DEVICE

<p>(51) International classification :A61B0005000000, A63B0021000000, A61H0003040000, A61B0005318000, B25J0015000000</p> <p>(86) International Application No Filing Date :NA :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : <b>1)Jaipur National University</b> Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)Dr. Vikrant Sharma</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>2)Dr. Manish Soni</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>3)Dushyant Kumar</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p> <p><b>4)Hitendra Agrawal</b> Address of Applicant :School of Engineering &amp; Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur ----- -----</p>
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(57) Abstract :

A climbing assistive device, comprising a cuboidal body 1 configured with multiple suction cups 4 for fixing with landing portion 2, an artificial intelligence-based imaging unit 5 attached on body 1 for capturing and detecting presence of user, a pair of L-shaped telescopic rods 7 attached with multiple plates 6 for withdrawing plates 6, a motorized slider attached between plates 6 for positioning plates 6 over stair-case 3, a platform 8 attached with upper-most plate 9 for standing the user, a motorized sliding arrangement 10 attached with platform 8 to provide movement over an auxiliary sliding rail, a pair of L-shaped telescopic bars 11 attached with a gripping unit 12 for gripping wheel-chair, a handle 13 installed with platform 8 provides grip to user, and a FBG (Fiber Bragg Grating) sensor installed on handle 13 for detecting vital parameters of user.

No. of Pages : 16 No. of Claims : 5

  
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