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(71)**Name of Applicant :**
1)Noida Institute of Engineering and Technology, Greater Noida
Address of Applicant :Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Sanjay Kumar
Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------
2)Vikas Kumar
Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------
3)Ved Prakash
Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------
4)Atul Ranjan
Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------
5)Pulkit Srivastava
Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida ---------- ----------

(57) Abstract :
The present invention relates to an adjustable ladder holding device for vehicle, comprising a platform 1 developed to be arranged with a rear portion of a vehicle, a touch sensor installed on platform 1 detecting placement of platform 1 underneath rear portion, an inbuilt microcontroller linked with touch sensor for receiving data from touch sensor, a pair of motorized clamps 2 installed on platform 1 for clamping rear portion to secure platform 1 with vehicle, an artificial intelligence-based imaging unit 3 installed on platform 1 for determining clamping of platform 1 with vehicle, a LiDAR (Light Detection And Ranging) sensor installed on platform 1 for detecting positioning of ladder's steps, and a weight sensor installed on each of steps for detecting climbing of user on steps.

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