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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)Dr. Kumud Saxena
 Address of Applicant :Department of Computer Science & 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)Pradeep Kumar
 Address of Applicant :Department of Computer Science & 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)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 -----

4)Dr. Raman Batra
 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 :
 An automated PVC (Polyvinyl Chloride) chair maintenance device, comprises of a housing 1 install with a touch enabled screen 2 to give input commands for repairing the chair, a camera 3 mounted on the housing 1 for capturing multiple images of chair, a hot air blower 4 configured on housing 1 via a motorized two-axis lead screw arrangement 5 for blowing hot air at a pre-set temperature for melting top layer of the chair, a telescopically operated rod 6 configured with the housing 1 equipped with a plate 7 for collecting the melted PVC on the plate 7, a first telescopically operated gripper 9 installed on he housing 1 for gripping free-end of the sheet, a second telescopically operated gripper 10 installed on the housing 1 for positioning the sheet on the chair, and a robotic 11 equipped with a blade 12 for cutting sheet from boundaries of the chair.

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