

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311085909 A

(19) INDIA

(22) Date of filing of Application :15/12/2023

(43) Publication Date : 19/01/2024

(54) Title of the invention : CLOTH WHISKER REMOVING DEVICE

(51) International classification :F16M0011180000, D06G0001000000, D06F0058100000, H05K0003240000, D06F0039000000

(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 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. 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 -----

2)Dr Prabha Shreeraj Nair

Address of Applicant :Department of Information Technology and M.Tech Integrated, 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)Ram Kumar Sharma

Address of Applicant :Department of Information Technology and M.Tech Integrated, 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)Amita Shukla

Address of Applicant :Department of Computer Science & Engineering (CSBS), 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 :

A cloth whisker removing device, comprising a housing 1 installed with a tray 2 in which clothes are placed, a touch enabled screen accessed by a user to input commands for removing whiskers, a camera 3 mounted within housing 1 for detecting presence of clothes, two telescopically operated rods 4 suspended in housing 1 and configured with two plates 5 which works synchronously with two hinges 6 to grip clothes followed by actuation of a motorized slider 7 translating clothes towards a platform 8, four clippers 9 installed on the platform 8 which grip corners of cloth, four motorized sliding units 10 translates clippers 9 for stretching clothes, a telescopically operated bar 12 positions inverted U-shaped frame 11 configuring two rollers 13 over clothes, a two-axis lead screw arrangement 14 translates rollers 13 over cloth, a turboelectric generator charges rollers 13 for adhering whiskers, and a speaker 15 notifies user.

No. of Pages : 17 No. of Claims : 4