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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. 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)Ajay 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)Anamika Srivastav
 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 -

4)Anurag Pal
 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)Ritesh Kumar Singh
 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 -

(57) Abstract :
 An automated sheep shearing device comprising a cuboidal shaped frame 1 positioned on a ground surface, an inlet 2 crafted on the frame 1 to enter a sheep, an ultrasonic sensor assembled inside frame 1 for detecting entrance of the sheep, a pair of cushioned members 3 attached with bars 4 around the sheep's neck to restrict movement of sheep, an AI based imaging unit 5 for capturing images of the sheep, an inverted U-shaped plate 6 suspended from a sliding unit 7 to accommodate the sheep within plate 6, a motorized trimmer 8 attached with rods 9 for shearing of woolen fleece, multiple weight sensors for detecting presence of the fleece, a pair of vacuum based cleaning unit 10 assembled on frame 1 for translating the fleece and a pair of motorized calendar rollers 11 are arranged inside the receptacle 12 for separating the fleece.

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