

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211064854 A

(19) INDIA

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

(43) Publication Date : 02/12/2022

(54) Title of the invention : AIR FILTER MANUFACTURING DEVICE

(51) International classification :G02B0005200000, G03G0015000000, B01D0039200000, G01S0015931000, A47K0010360000  
(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)Jaipur National University**

Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

**1)Rahul Saxena**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -----

**2)Vikas Bansal**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -----

**3)Puneet Kalia**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -----

**4)Alok Raj**

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur- 302017, Rajasthan, India. Jaipur -----

(57) Abstract :

An air filter manufacturing device, comprising a housing 1 with wheels 2 that provides movement to housing 1, bars 13 to lift housing 1, a display panel 3 to enter details regarding type of filter to be manufactured, a roller 4 with a sheet for wrapping and unwrapping sheet, an ultrasonic sensor for determining length of sheet, a rod 5 with a cutter 6 for extending towards sheet to cut, a pole 7 with a flap 8 for extending to position flap 8 to fold in sheet, an arm 9 for placing sheet within a member 10, a sliding arrangement 11 with gripping unit 12 for providing movement to gripping unit 12 to align, a storage chamber 14 for storing caps, a gripper 15 for withdrawing caps and align caps, an dispensing unit 16 for storing adhesive solution and an nozzle 17 for dispensing an adhesive solution on caps.

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

**Registrar**  
**Jaipur National University**