(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/09/2023

(21) Application No.202311059233 A
(43) Publication Date : 06/10/2023

(54) Title of the invention : AN EFFICIENT AND ECOFRIENDLY GARBAGE COLLECTION AND SEGREGATION DEVICE

(51) International classification :B65F0001140000, G06F0012020000, F16K0015030000, F02M0026320000, B25J0013060000
(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 & TECHNOLOGY
Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA ---------- ----------
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)MR. HARSHVARDHAN
Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ---------- ----------
2)MR. SHAHAZAD ALI
Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ---------- ----------
3)MR. ANANT PRAKASH AGRAWAL
Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ---------- ----------
4)DR. KUMUD SAXENA
Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ---------- ----------

(57) Abstract :
An efficient and ecofriendly garbage collection and segregation device (1), comprising; a housing body (2) with a wet chamber (3) and a dry chamber (4), wherein said housing body (2) is equipped with at least four wheels (5) for mobility, a shaft (6) connected to said housing body (2) and a setup bearing assembly connected with said shaft (6) for facilitating a movement in said device (1), a pneumatic cylinder (7) positioned at right side of said body and another pneumatic cylinder positioned at centre side of said body and each being configured for controlled expansion and contraction, a pair of jaws (8) for grasping and lifting a pre-defined amount of garbage, a plurality of pipes connected to a compressor, a remote control module for enabling wireless manipulation of the pneumatic cylinders and the pair of jaws, facilitating the segregation of the predetermined amount of garbage into the wet and dry chambers (3,4).

No. of Pages : 26 No. of Claims : 10