(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911026355 A

(19) INDIA

(22) Date of filing of Application :01/07/2019

(43) Publication Date : 08/01/2021

(54) Title of the invention : SYSTEM AND METHOF FOR ALIGNING AN UNMANNED AERIAL VEHICLE (UAV) WITH A DUSTBIN

(51) International classification	:B64C0039020000, G01R0033070000, B65F0001140000, G01R0015200000, B60R0021015000	<ul> <li>(71)Name of Applicant :</li> <li>1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India</li> <li>(72)Name of Inventor :</li> </ul>
(31) Priority Document No	:NA	1)GUPTA, Sheifali
(32) Priority Date	:NA	2)GUPTA, Rupesh
(33) Name of priority country	:NA	3)AHUJA, Sachin
(86) International Application No	:NA	4)GARG, Meenu
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a system (200) for aligning an unmanned aerial vehicle (UAV) (202) with at least one dustbin (204). The system includes magnetic strip (206) disposed on handle (208) of the dustbin (204). The UAV (202) having a Hall Effect sensor and one or more jaws (210). The Hall Effect sensor senses a presence of the dustbin (204) and an intensity of a magnetic field associated with the magnetic strip (206). The UAV (202) locates the dustbin (204) based on a pre-determined identification (ID) number. The pre-determined ID number is associated with the dustbin (204). One or more jaws (210) of the UAV align with the handle (208) of the located dustbin (204) to lift the aligned dustbin (204) to empty the aligned dustbin (204). The jaws (210) are aligned with the dustbin (204) when the intensity of the magnetic field associated with the magnetic strip (206).



No. of Pages : 28 No. of Claims : 10