

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032675 A

(19) INDIA

(22) Date of filing of Application :20/07/2021

(43) Publication Date : 03/03/2023

(54) Title of the invention : SYSTEM FOR DETECTION, TRACKING AND ELIMINATION OF LOCUST SWARM

| | | |
|---|---|--|
| (51) International classification | :B64C0039020000, G05D0001000000, G06Q0010080000, G06K0007100000, B60K0015030000 | (71)Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India |
| (31) Priority Document No | :NA | (72)Name of Inventor : |
| (32) Priority Date | :NA | 1)SINGH, Narinder Pal |
| (33) Name of priority country | :NA | 2)SHARMA, Bhanu |
| (86) International Application No | :NA | 3)KAUR, Amanpreet |
| Filing Date | :NA | 4)KUMAR, Naveen |
| (87) International Publication No | : NA | 5)GARGARISH, Shubham |
| (61) Patent of Addition to Application Number | :NA | 6)MANTRI, Archana |
| Filing Date | :NA | 7)PARTHASARATHY, P.K. |
| (62) Divisional to Application Number | :NA | 8)SINGH, Tikka Prabhjot |
| Filing Date | :NA | |

(57) Abstract :

The present disclosure provides a system (100) for detection, tracking and elimination of locust swarm. The system includes one or more image capturing units (102) configured to detect locust swarm. The system includes one or more spray tanks (114) configured to store pesticides for killing detected locusts. The system includes one or more actuators (106) configured to provide motion to one or more mobile aerial vehicles coupled to the system, the one or more image capturing units and the one or more spray tanks. The system includes one or more keys (112) facilitating selection of one or more operations from a set of predefined functionalities of one or more processing units (108). The one or more processing units are configured to receive information from one or more sensors (104) and transmit information to one or more display units (110), the information pertaining to a set of attributes and the one or more operations.

No. of Pages : 31 No. of Claims : 8