

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/04/2024

(21) Application No.202431028486 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : Smart Flora Hub

(51) International classification :H02J0007350000, A01C0023040000, A01G0027000000, H02J0003480000, A01M0029180000
(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)SWAMI VIVEKANANDA UNIVERSITY
Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DR. TANMOY SARKAR
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
2)MR.VIBHOR RAJ
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
3)MR. ABHISHEK DHAR
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
4)MR. SAURABH ADHIKARI
Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121 Barasat -----
5)Prof. (Dr.) Subhranil Som, Principal,
Address of Applicant :Bhairab Ganguly College 2, Feeder Rd, Beehive Garden, Belghoria, Kolkata, West Bengal-700056, India Barasat -----

(57) Abstract :

The smart flower pot redefines plant care by amalgamating automated irrigation, fertilization, and pest control within a singular, multifunctional system. Utilizing ultrasonic waves for insect deterrence, it minimizes water wastage through low water level protection and over drain prevention. With adaptable power sources, including solar panels and rechargeable batteries, this invention caters to indoor and outdoor environments, offering sustainable, user-friendly plant care solutions.

No. of Pages : 23 No. of Claims : 10