पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

The Patent Office Journal No. 04/2022 Dated 28/01/2022 4242

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2021

(21) Application No.202141058818 A
(43) Publication Date : 28/01/2022

(54) Title of the invention : A SECURE SMART FARMING SYSTEM (SSS) USING BIOMETRICS

(51) International classification	:H04L0029060000, G06F0021320000, A01G0025160000, G06K0009000000, A01G0025090000
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**
1)Sreemol R
Address of Applicant :Padmalayalam, Thriumuppam, Varapuzha P O, Ernakulam Kerala-683517 ---------- ----------
2)Dr. Santosh Kumar M B
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
1)Sreemol R
Address of Applicant :Padmalayalam, Thriumuppam, Varapuzha P O, Ernakulam Kerala-683517 ---------- ----------
2)Dr. Santosh Kumar M B
Address of Applicant :Sreenilayam, Pleasant Villas, 910/13D, Desiamukku Thoppil Road, Thrikkakara, Kochi, Kerala- 682021 ---------- ----------

(57) Abstract :
The secure smart farming system comprises a physical layer 102 for promoting physical connectivity with a plurality of sensors, drones, autonomous tractors, and an irrigation unit; an edge layer 104 for receiving a real time information of field and crops, irrigation unit, and autonomous tractor status for promoting security monitoring, prediction and a real-time decision support to give permission for a third-party agronomy analytics upon analyzing edge level data through a biometric authentication; a network layer 106 for establishing the edge layer 104 and physical layer connectivity; a cloud layer 108 for storing data in encrypted form, wherein the stored data is decrypted and read only by a registered user associated with the biometric authentication for preventing the data leakages in smart farming and to ensure proper data usage; and a control unit 110 for actuating plurality of sensors, autonomous tractors and automatic irrigation unit.

No. of Pages : 24 No. of Claims : 10