(12) PATENT APPLICATION PUBLICATION (21) Application No.202241029068 A

(19) INDIA

(22) Date of filing of Application :20/05/2022 (43) Publication Date : 27/05/2022

(54) Title of the invention : IOT BASED POWER THEFT DETECTION SYSTEM

(71)**Name of Applicant :**
  1)**Dr.Jona Innisai Rani P**
    Address of Applicant :Assistant Professor / Computer Science, Department of Vegetable Science, Horticultural College and Research Institute, TNAU, Periyakulam, India ---------- ----------
  2)**Srinivasan M L**
  3)**Sreevani Y V**
  4)**Sreekrishna M**
  5)**Devi D**
  6)**Mathumitha R**
  7)**Amshavalli R S**
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
  1)**Dr.Jona Innisai Rani P**
Address of Applicant :Assistant Professor / Computer Science, Department of Vegetable Science, Horticultural College and Research institute, TNAU, Periyakulam, India ---------- ----------
  2)**Srinivasan M L**
Address of Applicant :Assistant Professor/AI &DS, Jeppiaar Institute of Technology, Kunnam Village, Sriperumbuthur, India ---------- ----------
  3)**Sreevani Y V**
Address of Applicant :Assistant Professor / CSE, Department of CSE, Keshav Memorial Institute of Technology, Hyderabad, Research Scholar(PT), Annamalai University, Chidambaram, India ---------- -------
----
  4)**Sreekrishna M**
Address of Applicant :Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai, India ---------- -----------
  5)**Devi D**
Address of Applicant :Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai, India ---------- -----------
  6)**Mathumitha R**
Address of Applicant :Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai, India ---------- -----------
  7)**Amshavalli R S**
Address of Applicant :Assistant Professor, Department of CSE, Sathyabama Institute of Science and Technology, Chennai, India ---------- -----------

(51) International classification : G08B0013240000, H02H0003280000, G01R0022060000, G01R0031400000, H02J0009060000

(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

(57) Abstract :
ABSTRACT loT Based Power Theft Detection System Stealing Electrical power is a serious problem in power system networks around the world, and it is unlawful and should be outlawed completely. To prevent power theft, the site of the theft must be identified so that legal action against the criminals can be pursue. Arduino, LoRa-1276, LCD, ESP32 module, and current transformers make up the circuit. Because meters can't handle high currents, current transformers are used to detect them. The current through the load is measured by one CT, while the current via the supply is measured by the second CT, these are connected to the power supply terminals. To determine the amount of electrical power delivered by the power source. Power theft detection or kit has been deployed.using loT, and the same has been done using LoRa for backup protection.

No. of Pages : 14 No. of Claims : 3