

(54) Title of the invention : Development of IoT based underground wire fault detection system

<p>(51) International classification :G01R0031080000, H04L0029080000, H02G0009060000, G09B0023180000, G02F0001136200</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :PCT// Filing Date :01/01/1900 (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</p>	<p>(71)Name of Applicant : 1)S. Jaividhya Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, K. S. Rangasamy College of Technology, Tiruchengode - 637215 Tamilnadu, India Tamil Nadu India 2)Dr.S.Praveenkumar 3)Dr. Priyesh P. Gandhi 4)Dr. T.S. Karthik 5)Dr. Dinesh Sheshrao Kharate 6)Shweta Chauhan 7)Dr.M.Koti Reddy 8)Dr. Gaurav Dhiman 9)Dr.J.L.Divya Shivani 10)Dr. Vandana S. Bhat 11)Vishal Jagota 12)Dr. Shivaputra 13)Pavan Kumar E 14)Pankaj Mudholkar 15)Megha Mudholkar 16)A.Praveena 17)Dr. T.C.Manjunath</p> <p>(72)Name of Inventor : 1)S. Jaividhya 2)Dr.S.Praveenkumar 3)Dr. Priyesh P. Gandhi 4)Dr. T.S. Karthik 5)Dr. Dinesh Sheshrao Kharate 6)Shweta Chauhan 7)Dr.M.Koti Reddy 8)Dr. Gaurav Dhiman 9)Dr.J.L.Divya Shivani 10)Dr. Vandana S. Bhat 11)Vishal Jagota 12)Dr. Shivaputra 13)Pavan Kumar E 14)Pankaj Mudholkar 15)Megha Mudholkar 16)A.Praveena 17)Dr. T.C.Manjunath</p>
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(57) Abstract :

This method proposes fault location model for underground power cable using electronic current transformer and the thing which is based on the internet means the information will transfer through the internet access. The aim of this innovation is to determine the distance of underground cable fault from the base station in the kilometer and also find the exact location of that faulty place. This product uses the simple concept of ohm's law. When any fault like short circuit occurs, voltage drop will vary depending on length of fault in cable, since the current varies. A set of resistor are therefore used to represent the cable, since the current end and the fault is detected by detecting the change in the voltage using analog to voltage converter and a microcontroller is used to make the necessary calculation so that the fault distance is displayed on the LCD display. This fault details after send to any access point through the internet. Electronic current transformer is CT coil internet with IoT hardware circuit with molding.

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