

1) Family number: 54261205 (US2013169286A)

© PatBase

Title: LEAKAGE CURRENT SENSOR FOR POST TYPE INSULATOR

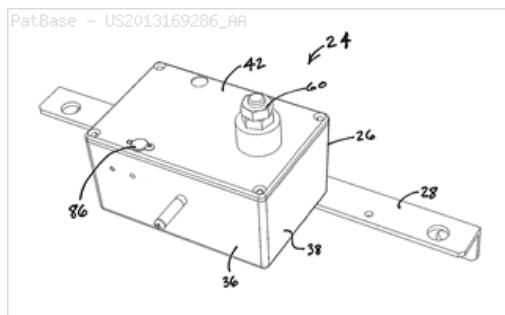
Abstract: A sensor apparatus for detecting leakage current in a post-type insulator of an electrical power system includes: a sensor unit having a housing, the sensor unit including: a sensor assembly operable to generate an analog signal proportional to a received leakage current; an electronics module operable to convert the analog signal to a digital value; and a communications system operable to wirelessly transmit the digital value to an external receiver; a collection band adapted to be connected to an exterior surface of the insulator; and a transfer lead interconnecting the sensor assembly and the collection band, the transfer lead operable to transfer leakage current from the insulator from the collection band to the sensor assembly.

Classifications:

International (IPC 8-9): G01R15/14 G01R19/25 G01R31/02
G01R31/12 G01R31/14 H01B17/14 (Advanced/Invention);
G01R19/25 H01B17/14 (Advanced/Non-invention)

CPC: G01R31/02 G01R15/14 G01R19/2513 G01R31/025
G01R31/1245

US: 324/509



Family:

Publication number	Publication date	Application number	Application date
CA2858621 AA	20140606	CA20122858621	20121228
CA2858621 C	20181218	CA20122858621	20121228
EP2807493 A1	20141203	EP20120863720	20121228
EP2807493 A4	20151104	EP20120863720	20121228
EP2807493 B1	20190327	EP20120863720	20121228
US2013169286 AA	20130704	US20120728484	20121227
US9903899 BB	20180227	US20120728484	20121227
WO13102045 A1	20130704	WO2012US72023	20121228

Priority:

US20110580810P 20111228 US20120728484 20121227 WO2012US72023 20121228

Probable Assignee: ELECTRIC POWER RESEARCH INST INC

Assignee(s): (std): ELECTRIC POWER RES INST ; ELECTRIC POWER RES INST INC ; ENGELBECHT CHRIS ; MAJOR MARK ; PHILLIPS ANDREW JOHN ; LYNCH BOB

Assignee(s): SOUTHWEST RESEARCH INST ; MAJOR J MARK ; LYNCH ROBERT C ; ELECTRIC POWER RESEARCH INST INC ; ENGELBECHT CHRISTIAAN S ; ELECTRIC POWER RESEARCH INST INC 1300 WEST W.T. HARRIS BOULEVARD CHARLOTTENC 28262US

Inventor(s): (std): ENGELBECHT CHRISTIAAN S ; ENGELBRECHT CHRISTIAAN STEPHAN ; MAJOR MARK ; PHILLIPS ANDREW JOHN ; MAJOR J MARK ; LYNCH ROBERT ; ENGELBECHT CHRIS ; ENGELBECHT CHRIS STEPHAN ; LYNCH BOB ; LYNCH ROBERT C ; LYNCH ROBERT CARLTON

Inventor(s): PHILLIPS ANDREW JOHNUS ; ENGELBECHT CHRISTIAAN SNL ; MAJOR J MARKUS ; LYNCH ROBERT CUS

Agent(s): FURMAN IP LAW AND STRATEGY PC ; BRANDON PAUL LAURENCE ; APPEYARD LEES IP LLP ; JONATHAN ; TREGO HINES AND LANDENHEIM PLLC ; BRANDON ; TREGO BRANDON ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EB EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 55520655 (US2014009299A)

© PatBase

Title: INDIRECT MEASUREMENT METHOD AND SYSTEM FOR MONITORING AND REPORTING LEAKAGE CURRENTS

Abstract: A system and method are provided for monitoring and reporting leakage currents caused by a load that is coupled to an AC supply line. A sensor positioned adjacent to an AC supply line senses an amperage difference between currents traveling along the AC supply line. A processor coupled to the sensor compares the amperage difference to a threshold value. A reporting device coupled to the processor generates a report at least when the amperage difference exceeds the threshold value.

Classifications:

International (IPC 8-9): G01R19/00 G06F19/00 G08B21/00
G08B21/18 (Advanced/Invention)

CPC: G01R31/025

US: 340/636.11 340/664 340/693.1 702/64

Publication number	Publication date	Application number	Application date
US2014009299 AA	20140109	US20120543839	20120708
US8766810 BB	20140701	US20120543839	20120708

Agent(s): PETER J

FIG. 1 is a schematic diagram of a vehicle-mounted crane system. A truck (10) is shown with a crane arm (12) extending upwards. The arm is connected to a base (14) and a hook (16). A cable (18) is attached to the hook. A power source (20) is connected to the base. A control unit (22) is located on the truck. A cable (24) connects the control unit to the base. Arrows indicate current flow (I_a) from the power source through the cable and the arm to the hook.

PatBase PDF Export - Page: 2 21/04/2019