

Title (en)

METHOD AND DEVICE FOR PARASITIC CURRENT DETECTION

Title (de)

VERFAHREN UND VORRICHTUNG ZUR FREMDSTROMDETEKTION

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTECTION DE COURANTS VAGABONDS

Publication

**EP 2601535 A2 20130612 (DE)**

Application

**EP 11751840 A 20110803**

Priority

- DE 102010036847 A 20100804
- EP 2011063381 W 20110803

Abstract (en)

[origin: WO2012017015A2] The invention relates to a method for parasitic current detection in a power supply system (10), which comprises at least one electrical unit (16), a power grid (14) having power paths (18, 20) for supplying the unit (14), and a central electrical feed system (12) for feeding electrical power to the power grid (14), wherein the feed system (12) is connected to one of the first of the power paths (18), at which a reference potential (f1) is present, and to at least one of the second of the power paths (20), at which a potential is present for generating an operating current (f2) through the unit (16), wherein the first power path (18) is grounded by means of a defined grounding branch (22) of a power connection section (26) of the first power path (18) which is connected directly to the feed system (12) and unbranched otherwise. According to the invention, the parasitic current is determined by comparing the operating current to a grounding current flowing through the grounding branch (22). The invention further relates to a device (40) for carrying out said method.

IPC 8 full level

**G01R 15/14** (2006.01); **G01R 31/02** (2006.01); **G01R 31/40** (2006.01); **H02H 3/50** (2006.01)

CPC (source: EP US)

**G01R 15/148** (2013.01 - EP US); **G01R 31/40** (2013.01 - EP US); **G01R 31/52** (2020.01 - EP US)

Citation (search report)

See references of WO 2012017015A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 102010036847 A1 20120209**; **DE 102010036847 B4 20150108**; CN 103069287 A 20130424; CN 103069287 B 20160302; EP 2601535 A2 20130612; US 2013141136 A1 20130606; WO 2012017015 A2 20120209; WO 2012017015 A3 20120405

DOCDB simple family (application)

**DE 102010036847 A 20100804**; CN 201180038314 A 20110803; EP 11751840 A 20110803; EP 2011063381 W 20110803; US 201313758161 A 20130204