

Title (en)

IR area heating device and method for operating the same

Title (de)

IR-Flächenbeheizungs Vorrichtung und Verfahren zum Betreiben derselben

Title (fr)

Dispositif de chauffage de surface IR et procédé destiné au fonctionnement de celle-ci

Publication

**EP 2378384 A3 20140730 (DE)**

Application

**EP 11002292 A 20110321**

Priority

DE 102010012238 A 20100320

Abstract (en)

[origin: EP2378384A2] The device has a current transformer (6) provided in a supply line (5) of a heating field (4) to measure current phase angle of alternating current supply voltage (1) based on a current value. An analog-to-digital (A/D) converter (7) passes the current value to a volatile memory (10) i.e. dynamic RAM (DRAM). A microcontroller (8) compares the current value stored in the volatile memory with reference values stored in a non-volatile memory (11) i.e. electrically EPROM (EEPROM), and triggers a warning signal based on a comparison result. An independent claim is also included for a method for operating an infrared surface heating device.

IPC 8 full level

**H05B 1/02** (2006.01)

CPC (source: EP)

**H05B 1/023** (2013.01); **H05B 2203/032** (2013.01)

Citation (search report)

- [I] DE 4231062 A1 19940324 - ABB PATENT GMBH [DE]
- [A] DE 4124344 A1 19930128 - DOLD & SOEHNE KG E [DE]
- [A] DE 19731700 A1 19990128 - LOCHBIHLER HERMANN GUENTER [DE], et al
- [A] US 4859926 A 19890822 - WOLZE DAVID A [US]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2378384 A2 20111019; EP 2378384 A3 20140730**; DE 102010012238 A1 20110922

DOCDB simple family (application)

**EP 11002292 A 20110321**; DE 102010012238 A 20100320