

Title (en)

METHOD FOR ASCERTAINING A CURRENT FLOWING THROUGH AN ELECTRICAL CONDUCTOR

Title (de)

VERFAHREN ZUR ERMITTLUNG EINES DURCH EINEN ELEKTRISCHEN LEITER FLIESSENDEN STROMES

Title (fr)

PROCÉDÉ POUR DÉTERMINER UN COURANT PASSANT PAR UN CONDUCTEUR ÉLECTRIQUE

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Application

EP 13756368 A 20130823

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Abstract (en)

[origin: WO2014044483A1] The invention relates to a method (38) for ascertaining a current (I) flowing through an electrical conductor (4) into which a measuring resistor (20) has been introduced. A first electrical voltage (U1) is sensed that drops across a first resistor (30) having a first resistance value (R1) in a first resistor arrangement (24), which is in electrical contact with the conductor (4) on one of the sides of the measuring resistor (20) and is connected to a reference-earth potential (P). A second electrical voltage (U2) is sensed that drops across a first resistor (30) having a first resistance value (R1) in a second resistor arrangement (24), which is in electrical contact with the conductor (4) on the other side of the measuring resistor (20) and is connected to the reference-earth potential (P). An electrical measured voltage (U) dropping across the measuring resistor (20) is calculated from the difference between the first and second vertical voltages (U1, U2) and is divided by the resistance value (R) of the measuring resistor (20).

IPC 8 full level

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Citation (search report)

See references of WO 2014044483A1

Citation (examination)

US 6617838 B1 20030909 - MIRANDA EVALDO M [US], et al

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