

Title (en)
ELECTRICAL ASSEMBLY FOR MEASURING A CURRENT INTENSITY OF A DIRECT-CURRENT CIRCUIT BY MEANS OF THE ANISOTROPIC MAGNETORESISTIVE EFFECT

Title (de)
ELEKTRISCHER AUFBAU ZUR MESSUNG EINER STROMSTÄRKE EINES GLEICHSTROMKREISES MITTELS DES ANISOTROPEN MAGNETORESISTIVEN EFFEKTS

Title (fr)
MONTAGE ÉLECTRIQUE POUR LA MESURE D'UNE INTENSITÉ DE COURANT D'UN CIRCUIT À COURANT CONTINU AU MOYEN DE L'EFFET MAGNÉTORÉSISTIF ANISOTROPE

Publication
EP 3265832 A1 20180110 (DE)

Application
EP 16703305 A 20160205

Priority
• DE 102015203732 A 20150303
• EP 2016052548 W 20160205

Abstract (en)
[origin: WO2016139028A1] The invention relates to an electrical assembly, comprising a direct-current circuit and a current-measuring device (8) for measuring a current intensity of the direct-current circuit (7), wherein the direct-current circuit (7) has a direct-current source, a positive line (1), and a negative line (2), wherein the positive line (1) is electrically connected to a positive pole (3) of the direct-current source and the negative line (2) is electrically connected to a negative pole (4) of the direct-current source, wherein the current-measuring device (8) comprises a measuring element (5), wherein the positive line (1) and the negative line (2) extend parallel to each other at least in a measurement region (6) and the measuring element (5) is arranged in the measurement region (6), wherein the measuring element (5) is designed in such a way that the measuring element measures a current on the basis of the anisotropic magnetoresistive effect during current flow.

IPC 8 full level
G01R 15/20 (2006.01)

CPC (source: CN EP US)
G01R 15/205 (2013.01 - CN EP US); **G01R 33/096** (2013.01 - US); **G01R 15/207** (2013.01 - CN EP US); **G01R 19/10** (2013.01 - CN EP US); **G01R 33/0005** (2013.01 - CN EP US)

Citation (search report)
See references of WO 2016139028A1

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)
WO 2016139028 A1 20160909; CN 107407697 A 20171128; EP 3265832 A1 20180110; US 2018045793 A1 20180215

DOCDB simple family (application)
EP 2016052548 W 20160205; CN 201680013688 A 20160205; EP 16703305 A 20160205; US 201615553253 A 20160205