Title (en)

CURRENT SENSOR

Title (de)

STROMSENSOR

Title (fr)

CAPTEUR DE COURANT

Publication

EP 2691782 A1 20140205 (DE)

Application

EP 12714274 A 20120329

Priority

- DE 102011006376 A 20110329
- EP 2012055718 W 20120329

Abstract (en)

[origin: WO2012130995A1] A current sensor comprising at least one first current detection element (1), which detects a load current (iload) through an electric conductor and provides an electric measurement signal in dependence on this load current, wherein the current detection element (1) is connected to a signal processing unit (2), which comprises a resistance element (3), which is configured such that, at least within a defined measurement region of the current sensor, the electrical resistance of the resistance element (3) decreases if the load current detected by the current detection element (1) increases.

IPC 8 full level

G01R 1/20 (2006.01); **G01R 15/00** (2006.01); **G01R 15/20** (2006.01); **G01R 19/00** (2006.01); **H03M 1/12** (2006.01)

CPC (source: EP KR US)

G01R 1/20 (2013.01 - KR); **G01R 15/00** (2013.01 - KR); **G01R 15/005** (2013.01 - EP US); **G01R 19/00** (2013.01 - KR US); **G01R 19/0092** (2013.01 - EP US); **G01R 31/36** (2013.01 - US)

Citation (search report)

See references of WO 2012130995A1

Citation (examination)

- WO 2012001157 A1 20120105 - CONTINENTAL TEVES AG & CO OHG [DE], et al
- TIETZE U ET AL: "Halbleiter-Schaltungstechnik, 13.3.3, TRANSISTOR-PRAEZISONSSTROMQUELLEN", HALBLEITER-SCHALTUNGSTECHNIK, XX, XX, 1 January 1993 (1993-01-01), pages 370 - 378, XP002408546

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 102012205161 A1 20121004; CN 103477234 A 20131225; EP 2691782 A1 20140205; JP 2014509747 A 20140421; KR 20140020304 A 20140218; US 2014015533 A1 20140116; WO 2012130995 A1 20121004

DOCDB simple family (application)

DE 102012205161 A 20120329; CN 201280015928 A 20120329; EP 12714274 A 20120329; EP 2012055718 W 20120329; JP 2014501637 A 20120329; KR 20137028372 A 20120329; US 201214007700 A 20120329