Title (en)

TEMPERATURE SENSOR AND RELATED REMOTE TEMPERATURE SENSING METHOD

Title (de)

TEMPERATURSENSOR UND DIESBEZÜGLICHES FERNTEMPERATURERFASSUNGSVERFAHREN

Title (fr)

DÉTECTEUR DE TEMPÉRATURE ET PROCÉDÉ DE DÉTECTION DE TEMPÉRATURE À DISTANCE APPARENTÉ

Publication

EP 2269017 A4 20130925 (EN)

Application

EP 08743054 A 20080418

Priority

US 2008005018 W 20080418

Abstract (en)

[origin: WO2009128803A1] A temperature sensor includes a plurality of rectangular shaped amorphous magnetic alloy strips connected magnetically, wherein at least one of the strips has a predetermined ferromagnetic Curie temperature, and another strip has a magnetic permeability well exceeding 2,000. The temperature sensor may be used in a related remote temperature sensing method wherein the sensor is interrogated by a magnetic field and the temperature sensor's response signal is detected electromagnetically.

IPC 8 full level

G01K 1/02 (2006.01); **G01K 7/38** (2006.01)

CPC (source: EP)

G01K 1/024 (2013.01); **G01K 7/38** (2013.01)

Citation (search report)

- [X] US 6208253 B1 20010327 - FLETCHER RICHARD [US], et al
- [A] US 2007263699 A1 20071115 - CLOTHIER BRIAN L [US], et al
- [L] EP 2269018 A1 20110105 - METGLAS INC [US]
- [X] RICHARD R FLETCHER ET AL: "Remotely Interrogated Temperature Sensors Based on Magnetic Materials", IEEE TRANSACTIONS ON MAGNETICS, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 36, no. 5, September 2000 (2000-09-01), XP011032927, ISSN: 0018-9464
- [T] AZUMA D ET AL: "Remote Temperature Sensor Based on Amorphous Metal Strips", IEEE TRANSACTIONS ON MAGNETICS, IEEE SERVICE CENTER, NEW YORK, NY, US, vol. 45, no. 10, October 2009 (2009-10-01), pages 4503 - 4505, XP011277224, ISSN: 0018-9464, DOI: 10.1109/TMAG.2009.2023611
- See references of WO 2009128803A1

Cited by

EP2269018A4

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2009128803 A1 20091022; CN 102007391 A 20110406; CN 102007391 B 20131225; EP 2269017 A1 20110105; EP 2269017 A4 20130925; HK 1156395 A1 20120608; JP 2011518330 A 20110623; JP 5351955 B2 20131127; KR 101419262 B1 20140716; KR 20110004878 A 20110114

DOCDB simple family (application)

US 2008005018 W 20080418; CN 200880128691 A 20080418; EP 08743054 A 20080418; HK 11110549 A 20111006; JP 2011504972 A 20080418; KR 20107025907 A 20080418