

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)

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- [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
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Designated contracting state (EPC)

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DOCDB simple family (publication)

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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