

Title (en)

GIANT MAGNETORESISTIVE MAGNETIC FIELD SENSOR

Title (de)

RIESENMAGNETOWIEDERSTANDSMAGNETFELDWANDLER

Title (fr)

CAPTEUR DE CHAMP MAGNETIQUE A MAGNETORESISTANCE GEANTE

Publication

EP 1055132 A1 20001129 (FR)

Application

EP 99958303 A 19991210

Priority

- FR 9903101 W 19991210
- FR 9815697 A 19981211

Abstract (en)

[origin: FR2787197A1] The invention concerns a magnetic sensor comprising first and second elements (1, 2) in thin magnetic material layers with magnetic anisotropy in the plane having in said plane two easy magnetisation axes. The coercitive field of one of the elements is of a different value from that of the other element. The two elements have mutually parallel elongated shapes perpendicular to their easy magnetisation direction in the absence of an external magnetic field. The width of said elements is such that it compels at least one of the elements to have its magnetisation oriented along the length of the element in the absence of external magnetic field. The invention is useful for measuring magnetic field.

IPC 1-7

G01R 33/09

IPC 8 full level

G01R 33/09 (2006.01); **G11B 5/39** (2006.01); **H10N 50/01** (2023.01); **H10N 50/10** (2023.01)

CPC (source: EP US)

B82Y 25/00 (2013.01 - EP US); **G01R 33/093** (2013.01 - EP US); **Y10T 428/1121** (2015.01 - EP US)

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

FR 2787197 A1 20000616; **FR 2787197 B1 20010223**; EP 1055132 A1 20001129; JP 2002532894 A 20021002; US 6496004 B1 20021217; WO 0036429 A1 20000622

DOCDB simple family (application)

FR 9815697 A 19981211; EP 99958303 A 19991210; FR 9903101 W 19991210; JP 2000588616 A 19991210; US 60133300 A 20000810