

Title (en)

METHOD OF PRODUCING A WHEATSTONE BRIDGE CONTAINING BRIDGE ELEMENTS CONSISTING OF A SPIN-VALVE SYSTEM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER WHEATSTONEBRÜCKE, BEINHALTEND BRÜCKENELEMENTE BESTEHEND AUS EINEM SPIN-VALVE-SYSTEM

Title (fr)

PROCEDE DE FABRICATION D'UN PONT DE WHEATSTONE COMPORTANT DES ELEMENTS DE PONTAGE CONSTITUES D'UN SYSTEME DE VANNES ROTATIVES

Publication

EP 1287372 A2 20030305 (DE)

Application

EP 01960282 A 20010607

Priority

- DE 10028640 A 20000609
- EP 0106486 W 20010607

Abstract (en)

[origin: DE10028640A1] Adjacent half-bridges have a non-parallel bias magnetization direction. Non-adjacent bridge elements (1,3 or 2,4) have implantable ions doped in quantities between $1 \cdot 10^{12}$ and $5 \cdot 10^{16}$ atoms/cm² beneath a pinned ferromagnetic layer of a GMR/TMR spin valve layer system. While bombarded by a low dose of low-energy ions, selected bridge (1,3) or surface areas without a covering (5) are exposed to a homogenous, targeted magnetic field of sufficient strength.

IPC 1-7

G01R 33/09

IPC 8 full level

G01R 33/09 (2006.01)

CPC (source: EP US)

B82Y 25/00 (2013.01 - EP US); **G01R 33/093** (2013.01 - EP US); **G01R 33/096** (2013.01 - EP US); **H10N 50/01** (2023.02 - EP US); **Y10T 428/12375** (2015.01 - EP US)

Citation (search report)

See references of WO 0194963A2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 10028640 A1 20011220; **DE 10028640 B4 20051103**; EP 1287372 A2 20030305; US 2004023064 A1 20040205; US 6882145 B2 20050419; WO 0194963 A2 20011213; WO 0194963 A3 20020404

DOCDB simple family (application)

DE 10028640 A 20000609; EP 0106486 W 20010607; EP 01960282 A 20010607; US 29764402 A 20021209