

Title (en)
SPIN-ELECTRONICS DEVICE

Title (de)
SPIN-ELEKTRONIK-EINRICHTUNG

Title (fr)
DISPOSITIF A ELECTRONIQUE DE SPIN

Publication
EP 1825477 A1 20070829 (FR)

Application
EP 05826675 A 20051214

Priority
• EP 2005056786 W 20051214
• FR 0413338 A 20041215

Abstract (en)
[origin: WO2006064022A1] The invention generally relates to spin-electronics also called spintronics, i.e. to an electronic branch using magnetic spin properties of electrons. Said invention is mainly used for a high-capacity information magnetic storage and for measuring local magnetic fields. The aim of said invention is to substantially reduce energy required for reversing magnetic domains (1, 2) of sub-micron dimensioned ferromagnetic elements by means of a mechanism for displacing walls (3) induced by a single stream (C) of spin-polarised carriers or by a combination thereof with a magnetic field (B), wherein at least on which is variable. Said wall displacement results in a magnetic polarisation modification in a determined switching area (5).

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