

Title (en)

METHOD FOR DETECTING A CURRENT OF SPIN POLARIZED ELECTRONS IN A SOLID BODY

Title (de)

VERFAHREN ZUM DETEKTIEREN EINES STROMS SPINPOLARISierter ELEKTRONEN IN EINEM FESTKÖRPER

Title (fr)

PROCEDE POUR DETECTER UN COURANT ELECTRONIQUE A SPIN POLARISE DANS UN SOLIDE

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19746138A1] The polarisation direction detection method detects the electrical field resulting from the magnetic deflection of the spin polarised electrons as a voltage, the electron injection effected by application of a voltage between a ferromagnetic contact body (2) and a non-ferromagnetic contact body (3) applied to the surface of a silicon body (1). The electrical field may be measured as a voltage obtained across 2 further contacts (4,5) positioned transverse to the mean flow direction (6) of the electrons (8).

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IPC 8 full level

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