

Title (en)

MAGNETIC FIELD SENSOR WITH A BRIDGE ARRANGEMENT OF MAGNETO-RESISTIVE BRIDGING ELEMENTS

Title (de)

MAGNETFELDSSENSOR MIT EINER BRÜCKENSCHALTUNG VON MAGNETORESISTIVEN BRÜCKENELEMENTEN

Title (fr)

DETECTEUR DE CHAMP MAGNETIQUE POURVU D'UN MONTAGE EN PONT CONSTITUE D'ELEMENTS DE PONTAGE MAGNETORESISTIFS

Publication

EP 0874999 A1 19981104 (DE)

Application

EP 96915955 A 19960531

Priority

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- DE 19520206 A 19950601

Abstract (en)

[origin: DE19520206A1] The invention concerns a sensor with a bridge arrangement (B1) of a plurality of magneto-resistive thin film bridge elements (E1 to E4). All the bridge elements (E1 to E4) are constructed with the same layered structure on a common substrate (13) and display a giant magneto-resistive (GMR) effect. In addition, each bridge element has a bias layer part and a conductive layer (6i) which is provided for guiding a set current (Ie) in order to set in a fixed manner a given orientation direction for the magnetization in the bias layer part.

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IPC 8 full level

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