

Title (en)

A THIN MAGNETORESISTIVE CURRENT SENSOR SYSTEM

Title (de)

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Title (fr)

SYSTEME DE DETECTION DE COURANT MAGNETORESISTANT MINCE

Publication

**EP 1224483 A1 20020724 (EN)**

Application

**EP 00973854 A 20001026**

Priority

- US 0029434 W 20001026
- US 43042799 A 19991029

Abstract (en)

[origin: WO0133242A1] A thin magnetoresistive current sensor system having a direction of magnetic field sensitivity parallel to the larger surfaces of its lamination or laminations. The sensor consists of one or just a few thin laminations of a high permeability magnetic material or nickel-iron or like metal, forming a loop having a gap, and a magnetoresistive-magnetic field sensor situated in the gap. The current sensor structure avoids the expensive and bulky numerous laminations of the related art current sensors. The thin lamination or structure of the present magnetic field sensor is preferably formed on a single substrate or PC that contains the processing electronics for the current sensor system.

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