

Title (en)

A THIN MAGNETORESISTIVE CURRENT SENSOR SYSTEM

Title (de)

ZELLENSPANNUNGSMESSUNG EINES BRENNSTOFFZELLENSTACKS

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.

IPC 1-7

G01R 31/36

IPC 8 full level

G01R 15/20 (2006.01)

CPC (source: EP)

G01R 15/205 (2013.01)

Citation (search report)

See references of WO 0133242A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0133242 A1 20010510; EP 1224483 A1 20020724

DOCDB simple family (application)

US 0029434 W 20001026; EP 00973854 A 20001026