

Title (en)  
DIAGNOSABLE HALL SENSOR

Title (de)  
DIAGNOSTIZIERBARER HALLSENSOR

Title (fr)  
DÉTECTEUR DE HALL DIAGNOSTIQUABLE

Publication  
**EP 2260315 A2 20101215 (DE)**

Application  
**EP 09726784 A 20090402**

Priority  
• DE 2009050012 W 20090402  
• DE 102008000943 A 20080402

Abstract (en)  
[origin: WO2009121352A2] The invention relates to a measuring apparatus for determining magnetic field strengths by way of a Hall probe (2), and to a method for the functional diagnosis of a Hall sensor device (1). The measuring apparatus comprises a sensor device (1) having a Hall probe (2) and according to the invention is characterized by an electrical diagnosis conductor (4) that is galvanically isolated from the Hall probe (2). A diagnosable Hall sensor device (1) and a method for the functional diagnosis of a Hall sensor (2) are created, by which permanent, comprehensive diagnosis of the sensor device (1) or of the Hall sensor (2) can be carried out. In particular, the Hall sensor (2) can be checked not only qualitatively for functional capability or failure, but also quantitatively with respect to correct calibration, and optionally an immediate correction or recalibration of the sensor (2) can take place. In this way, particularly measuring errors, for example due to a temperature drift or due to mechanical stresses of the sensor (2), can be eliminated.

IPC 8 full level  
**G01R 33/07** (2006.01)

CPC (source: EP KR US)  
**G01R 33/06** (2013.01 - KR); **G01R 33/07** (2013.01 - EP KR US); **G01R 15/202** (2013.01 - EP)

Citation (search report)  
See references of WO 2009121352A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2009121352 A2 20091008; WO 2009121352 A3 20091126**; CN 101983340 A 20110302; DE 102008000943 A1 20091015; DE 102008000943 B4 20150219; EP 2260315 A2 20101215; JP 2011516842 A 20110526; JP 5599112 B2 20141001; KR 101528651 B1 20150612; KR 20110021718 A 20110304; US 2011018534 A1 20110127; US 8362764 B2 20130129

DOCDB simple family (application)  
**DE 2009050012 W 20090402**; CN 200980112082 A 20090402; DE 102008000943 A 20080402; EP 09726784 A 20090402; JP 2011502225 A 20090402; KR 20107021864 A 20090402; US 93438409 A 20090402