

Title (en)

METHOD FOR MONITORING A MAGNETICALLY INDUCTIVE FLOW MEASURING SENSOR

Title (de)

VERFAHREN ZUR FUNKTIONSBÜBERWACHUNG EINES MAGNETISCH INDUKTIVEN DURCHFLUSSMESSAUFNEHMERS

Title (fr)

PROCEDE DE SURVEILLANCE DU FONCTIONNEMENT D'UN CAPTEUR A INDUCTION MAGNETIQUE D'UN DEBITMETRE

Publication

EP 1817553 A1 20070815 (DE)

Application

EP 05815598 A 20051125

Priority

- EP 2005056223 W 20051125
- DE 102004057680 A 20041129

Abstract (en)

[origin: DE102004057680A1] The method involves generating a temporally changing magnetic field by a coil (3) of a flow rate sensor, where the coil serves as a magnetic field generator. The sensor function is monitored based on a receive signal induced by the field in another coil (5) serving as the receiver. The induced voltage is proportional to a cross section of a measuring tube via which medium whose flow rate is to be measured flows. An independent claim is also included for a magnetically inductive flow rate sensor.

IPC 8 full level

G01F 1/58 (2006.01); **G01F 1/60** (2006.01); **G01F 25/00** (2006.01)

CPC (source: EP US)

G01F 1/588 (2013.01 - EP US); **G01F 1/60** (2013.01 - EP US); **G01F 25/10** (2022.01 - EP US)

Citation (search report)

See references of WO 2006058862A1

Cited by

CN103557894A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102004057680 A1 20060601; CN 101111746 A 20080123; EP 1817553 A1 20070815; RU 2350914 C1 20090327; US 2008250866 A1 20081016; WO 2006058862 A1 20060608

DOCDB simple family (application)

DE 102004057680 A 20041129; CN 200580047443 A 20051125; EP 05815598 A 20051125; EP 2005056223 W 20051125; RU 2007124431 A 20051125; US 79171205 A 20051125