

Title (en)

METHOD FOR OPERATING A MAGNETIC SWITCHING ELEMENT

Title (de)

VERFAHREN ZUM BETREIBEN EINES MAGNETISCHEN SCHALTGLIEDES

Title (fr)

PROCÉDÉ POUR FAIRE FONCTIONNER UN ORGANE DE COMMUTATION MAGNÉTIQUE

Publication

EP 2635783 A1 20130911 (DE)

Application

EP 11770739 A 20111012

Priority

- DE 102010043306 A 20101103
- EP 2011067784 W 20111012

Abstract (en)

[origin: WO2012059305A1] The invention relates to a method for operating a magnetic switching element (16), wherein at least one connection of at least one sensor device (70) is switched to at least one connection (HS, LS) of a coil (30) of the magnetic switching element (16), and wherein at least one measurement state is produced, in which at least one connection (HS, LS) of the coil (30) is substantially decoupled at least for a time from a ground (88) and/or a voltage source (80, 86) and/or a current source actuating the coil (30), and wherein at least one auxiliary voltage (94, 104) and/or at least one auxiliary current is present at at least one connection (HS, LS) of the coil (30) in the measurement state, and at least one sensor signal is derived from at least one electrical potential (92, 102) and/or at least one potential difference at the connections of the coil (30) and/or at least one current flowing through the connections of the coil (30).

IPC 8 full level

F02D 41/20 (2006.01); **F02D 41/24** (2006.01); **H01F 7/18** (2006.01)

CPC (source: EP US)

F02D 41/20 (2013.01 - EP US); **F02D 41/2438** (2013.01 - EP US); **F02D 41/247** (2013.01 - EP US); **G01R 31/327** (2013.01 - US); **F02D 2041/2055** (2013.01 - EP US); **H01F 2007/185** (2013.01 - EP US); **H01F 2007/1861** (2013.01 - EP US)

Citation (search report)

See references of WO 2012059305A1

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102010043306 A1 20120503; **DE 102010043306 B4 20230607**; BR 112013010695 A2 20160809; CN 103180588 A 20130626; CN 103180588 B 20161019; EP 2635783 A1 20130911; US 2013300422 A1 20131114; US 9624884 B2 20170418; WO 2012059305 A1 20120510

DOCDB simple family (application)

DE 102010043306 A 20101103; BR 112013010695 A 20111012; CN 201180052803 A 20111012; EP 11770739 A 20111012; EP 2011067784 W 20111012; US 201113883191 A 20111012