

Title (en)

METHOD FOR DETERMINING A SWITCHED STATE OF A VALVE, AND SOLENOID VALVE ASSEMBLY

Title (de)

VERFAHREN ZUM BESTIMMEN EINES SCHALTZUSTANDS EINES VENTILS UND ELEKTROMAGNETVENTILANORDNUNG

Title (fr)

PROCÉDÉ POUR DÉTERMINER UN ÉTAT DE COMMUTATION D'UNE VANNE ET ENSEMBLE ÉLECTROVANNE

Publication

EP 3867655 A1 20210825 (DE)

Application

EP 19786939 A 20191009

Priority

- DE 102018217661 A 20181015
- EP 2019077400 W 20191009

Abstract (en)

[origin: WO2020078806A1] The invention relates to a method for determining a switched state of a valve. In said method, an inductance value is ascertained on the basis of current and voltage measurements, and the switched state is determined on the basis of the inductance value. The invention further relates to a solenoid valve assembly for carrying out said kind of method.

IPC 8 full level

G01R 31/00 (2006.01); **F16K 37/00** (2006.01); **G01R 31/28** (2006.01); **H01F 10/00** (2006.01)

CPC (source: EP KR US)

F16K 31/0675 (2013.01 - US); **F16K 37/0083** (2013.01 - EP KR US); **G01R 31/2829** (2013.01 - KR); **G01R 31/72** (2020.01 - EP KR); **G01R 33/0035** (2013.01 - US); **G01R 35/00** (2013.01 - US); **G01R 35/005** (2013.01 - US); **H01F 7/1844** (2013.01 - EP KR); **G01R 31/2829** (2013.01 - EP); **G01V 3/08** (2013.01 - US); **G01V 3/081** (2013.01 - US); **G01V 13/00** (2013.01 - US); **H01F 2007/185** (2013.01 - EP KR); **H01F 2007/1861** (2013.01 - EP KR US); **H01F 2007/1888** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2020078806A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102018217661 A1 20200416; CN 112840218 A 20210525; EP 3867655 A1 20210825; KR 102499228 B1 20230210; KR 20210041615 A 20210415; US 11940059 B2 20240326; US 2021381620 A1 20211209; WO 2020078806 A1 20200423

DOCDB simple family (application)

DE 102018217661 A 20181015; CN 201980067490 A 20191009; EP 19786939 A 20191009; EP 2019077400 W 20191009; KR 20217007624 A 20191009; US 201917284920 A 20191009