

Title (en)

ELECTROMAGNETICALLY ACTUABLE PROPORTIONAL FLOW VALVE, AND METHOD FOR OPERATING AN ELECTROMAGNETICALLY ACTUABLE PROPORTIONAL FLOW VALVE

Title (de)

ELEKTROMAGNETISCH BETÄTIGBARES MENGENPROPORTIONALVENTIL SOWIE VERFAHREN ZUM BETREIBEN EINES ELEKTROMAGNETISCH BETÄTIGBAREN MENGENPROPORTIONALVENTILS

Title (fr)

SOUPAPE PROPORTIONNELLE À ACTIONNEMENT ÉLECTROMAGNÉTIQUE AINSI QUE PROCÉDÉ SERVANT À FAIRE FONCTIONNER UNE SOUPAPE PROPORTIONNELLE À ACTIONNEMENT ÉLECTROMAGNÉTIQUE

Publication

EP 3158183 A1 20170426 (DE)

Application

EP 15729834 A 20150617

Priority

- DE 102014211942 A 20140623
- EP 2015063512 W 20150617

Abstract (en)

[origin: WO2015197433A1] The invention relates to an electromagnetically actuable proportional flow valve for flow regulation in a fuel injection system, in particular in a common-rail injection system, comprising a valve housing (1) with at least one feed bore (2), upstream of which there is arranged a filter element or screen (3). According to the invention, an electric heating device is provided for heating the filter element or screen (3). The invention also relates to a method for operating an electromagnetically actuable proportional flow valve for flow regulation in a fuel injection system, in particular in a common-rail injection system.

IPC 8 full level

F02M 53/00 (2006.01); **F02D 41/06** (2006.01); **F02M 37/22** (2006.01); **F02M 59/34** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01); **F16K 3/02** (2006.01); **F16K 49/00** (2006.01); **G05D 7/06** (2006.01)

CPC (source: CN EP KR)

F02D 41/3854 (2013.01 - EP KR); **F02M 21/0218** (2013.01 - EP KR); **F02M 53/00** (2013.01 - CN EP KR); **F02M 59/34** (2013.01 - CN EP KR); **F02M 59/466** (2013.01 - CN EP KR); **F02M 63/0017** (2013.01 - CN); **F02M 63/004** (2013.01 - EP KR); **F02M 63/0056** (2013.01 - CN EP KR); **F02N 19/04** (2013.01 - EP); **F16K 3/0209** (2013.01 - KR); **F16K 49/002** (2013.01 - KR); **G05D 7/0635** (2013.01 - EP KR); **G05D 23/19** (2013.01 - EP KR); **F02D 41/064** (2013.01 - EP); **F02D 2200/0606** (2013.01 - EP); **F02M 2200/27** (2013.01 - CN EP); **Y02T 10/30** (2013.01 - EP)

Citation (search report)

See references of WO 2015197433A1

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 102014211942 A1 20151224; CN 106471242 A 20170301; EP 3158183 A1 20170426; KR 20170020506 A 20170222; RU 2017101851 A 20180723; WO 2015197433 A1 20151230

DOCDB simple family (application)

DE 102014211942 A 20140623; CN 201580033835 A 20150617; EP 15729834 A 20150617; EP 2015063512 W 20150617; KR 20177001803 A 20150617; RU 2017101851 A 20150617