

Title (en)

FUEL INJECTOR ACTUATED BY AN ELECTROMAGNETIC VALVE, WITH A HYDRAULIC OVERTRAVEL STOP

Title (de)

MAGNETVENTILBETÄTIGTER KRAFTSTOFFINJEKTOR MIT HYDRAULISCHEM ÜBERHUBANSCHLAG

Title (fr)

INJECTEUR DE CARBURANT ACTIONNE PAR VANNE MAGNETIQUE, COMPRENANT UNE BUTEE HYDRAULIQUE DE DEPASSEMENT DE COURSE

Publication

EP 1805409 A1 20070711 (DE)

Application

EP 05801500 A 20051007

Priority

- EP 2005055108 W 20051007
- DE 102004050992 A 20041020

Abstract (en)

[origin: WO2006042798A1] The invention relates to an electromagnetic valve for actuating a fuel injector by means of a closing element (13) via which a discharge throttle (14) of a control chamber (15) can be released or closed. An armature plate (7) is moveably mounted on an armature pin (6) and secured by a stop (5). A magnet (2) is arranged opposite the armature plate (7) and at least one overflow channel (26) is provided inside the armature plate (7), said overflow channel connecting hydraulically the discharge throttle chamber (34) to the control chamber (35), thereby forming a hydraulic cushion underneath the armature plate (7).

IPC 8 full level

F02M 47/02 (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 2200/304** (2013.01); **F02M 2200/70** (2013.01); **F02M 2547/003** (2013.01)

Citation (search report)

See references of WO 2006042798A1

Cited by

CN110397771A

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 102004050992 A1 20060427; AT E387577 T1 20080315; DE 502005003034 D1 20080410; EP 1805409 A1 20070711; EP 1805409 B1 20080227; JP 2008517212 A 20080522; JP 4495761 B2 20100707; WO 2006042798 A1 20060427

DOCDB simple family (application)

DE 102004050992 A 20041020; AT 05801500 T 20051007; DE 502005003034 T 20051007; EP 05801500 A 20051007; EP 2005055108 W 20051007; JP 2007537253 A 20051007