Title (en)

SOLENOID VALVE WITH FLOODED ARMATURE CHAMBER

Title (de)

MAGNETVENTIL MIT GEFLUTETEM ANKERRAUM

Title (fr)

ÉLECTROVANNE À ESPACE D'INDUIT NOYÉ

Publication

EP 2021616 A1 20090211 (DE)

Application

EP 07726781 A 20070312

Priority

- EP 2007052266 W 20070312
- DE 102006021735 A 20060510

Abstract (en)

[origin: WO2007128607A1] The invention relates to a fuel injector (10), comprising a solenoid valve (12), with a magnetic yoke (16), a solenoid coil (18) and an armature (32, 34). The armature (32, 34) is loaded in the closing direction by means of a closing spring (26). A cavity (50) including a controlled amount runs between a front face (58) of the magnetic yoke(16) and a front face (54) of the armature (32, 34). A recess (56, 66) increasing the volume of the cavity (50) is embodied on one of the front faces (54, 58).

IPC 8 full level (invention and additional information)

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

CPC (invention and additional information)

F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/0019** (2013.01); **F02M 63/0021** (2013.01); **F02M 63/0031** (2013.01); **F02M 63/007** (2013.01); F02M 2200/308 (2013.01)

Citation (search report)

See references of WO 2007128607A1

Designated contracting state (EPC)

DE FR GB IT

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family

DE 102006021735 A1 20071115; EP 2021616 A1 20090211; EP 2021616 B1 20110518; WO 2007128607 A1 20071115