

Title (en)

Fuel injection valve and fuel injection system

Title (de)

Kraftstoffeinspritzventil und Kraftstoffeinspritzsystem

Title (fr)

Soupape d'injection de carburant et système d'injection de carburant

Publication

EP 2273098 B1 20170125 (DE)

Application

EP 10161770 A 20100503

Priority

DE 102009027459 A 20090703

Abstract (en)

[origin: EP2273098A1] The valve has a solenoid valve (1) for controlling open or closed position of a valve needle (2). The solenoid valve includes an anchor (5) connected with a valve element (4) and movable by electromagnets (3), where the anchor is arranged within a valve chamber (6). Fuel is provided as a cooling medium in a cooling circuit (7) for cooling the solenoid valve. The solenoid valve is hydraulically connected with a fuel tank (8) over an inlet (9) and an outlet (10). The inlet and the outlet are formed at the solenoid valve.

IPC 8 full level

F02M 47/02 (2006.01); **F02M 53/04** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 53/043** (2013.01); **F02M 63/008** (2013.01); **F02M 2547/003** (2013.01); **F02M 2700/077** (2013.01)

Citation (examination)

- EP 1394402 A2 20040303 - BOSCH GMBH ROBERT [DE]
- US 2006107928 A1 20060525 - HOUY SYLVAIN [DE], et al

Cited by

WO2019186290A1; WO2013117979A1

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2273098 A1 20110112; **EP 2273098 B1 20170125**; DE 102009027459 A1 20110105

DOCDB simple family (application)

EP 10161770 A 20100503; DE 102009027459 A 20090703