

Title (en)

Fuel injector with improved implementation of a control valve for controlling an injection needle

Title (de)

Kraftstoffinjektor mit einer verbesserten Ausführung eines Steuerventils zur Steuerung einer Düsenadel

Title (fr)

Injecteur de carburant doté d'un équipement amélioré d'une soupape de commande pour la commande d'une aiguille d'injection

Publication

EP 1967727 A3 20090701 (DE)

Application

EP 08100932 A 20080125

Priority

DE 102007011317 A 20070308

Abstract (en)

[origin: EP1967727A2] An automotive fuel injection assembly (1) has a needle (4) that rises and falls within a jet (3) housing (2) to open and close a jet (5). A valve regulates the needle motion by side contact with a pressure pin (8). The needle (7) end geometry makes contact with the needle valve seat (9) but leaves an aperture that dampens fluid flow to the valve needle (7).

IPC 8 full level

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

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 63/0015** (2013.01); **F02M 63/007** (2013.01); **F02M 63/0078** (2013.01); **F02M 63/008** (2013.01); **F02M 2200/304** (2013.01)

Citation (search report)

- [A] EP 1612405 A1 20060104 - FIAT RICERCHÉ [IT]
- [A] EP 1719904 A1 20061108 - BOSCH GMBH ROBERT [DE]

Cited by

CN103635684A; CN102822496A; WO2012171767A1; WO2011042300A1; WO2011117029A1; EP2201240B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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