

Title (en)

Fuel injector with direct pin control and servo-valve support

Title (de)

Kraftstoffinjektor mit direkter Nadelsteuerung und Servoventil-Unterstützung

Title (fr)

Injecteur de carburant doté d'une commande à aiguille directe et assistance par servosoupape

Publication

EP 1887213 A3 20090513 (DE)

Application

EP 07111696 A 20070704

Priority

DE 102006036779 A 20060807

Abstract (en)

[origin: EP1887213A2] An automotive fuel injector has a valve (3) with a jet outlet (13) that is opened and closed by a piston (27). The piston and valve are linked by a regulator chamber (23) limited on one side by the valve end-face (21) and at the other by the lower face (25) of the piston (27). The piston acts as the valve piston for a regulator valve (33) linking the chamber (27) with the low-pressure zone in a fuel-return tube (63).

IPC 8 full level

F02M 47/02 (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 61/167** (2013.01); **F02M 63/0024** (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0031** (2013.01); **F02M 51/061** (2013.01); **F02M 2547/001** (2013.01)

Citation (search report)

- [A] DE 102004005452 A1 20050825 - BOSCH GMBH ROBERT [DE]
- [A] DE 19954288 A1 20010517 - BOSCH GMBH ROBERT [DE]
- [A] EP 1531258 A2 20050518 - SIEMENS AG [DE]
- [A] DE 10334209 A1 20050210 - BOSCH GMBH ROBERT [DE]

Cited by

FR2941746A1; WO2010086553A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

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