

Title (en)

Fuel-injection device for an internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Système d'injection de carburant pour moteur à combustion interne

Publication

**EP 1617072 A3 20060517 (DE)**

Application

**EP 05103971 A 20050512**

Priority

DE 102004034672 A 20040717

Abstract (en)

[origin: EP1617072A2] The fuel injection unit for an internal combustion engine includes an electrically operated control valve through which a connection of the pump working chamber to a low pressure section (54) is controlled. The control valve during the feed stroke of the pump piston is closed to fuel injection, and open towards the ending of the fuel injection, whereby fuel under high pressure is controlled in the low pressure section. A pressure oscillation damper (62) is installed in the connection of the pump working chamber to the low pressure section between the control valve and the low pressure section.

IPC 8 full level

**F02M 57/02** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)

**F02M 55/04** (2013.01); **F02M 57/023** (2013.01); **F02M 59/366** (2013.01); **F02M 55/00** (2013.01); **F02M 59/44** (2013.01); **F02M 2200/315** (2013.01)

Citation (search report)

- [X] DE 10000384 A1 20010712 - VOLKSWAGEN AG [DE]
- [DY] DE 19844891 A1 20000406 - BOSCH GMBH ROBERT [DE]
- [Y] EP 1411236 A2 20040421 - BOSCH GMBH ROBERT [DE]

Cited by

WO2007144229A1; GB2538711A; CN109312702A; KR20190014508A; WO2017207134A1; US8038083B2

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 MC NL PL PT RO SE SI SK TR

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**EP 1617072 A2 20060118**; **EP 1617072 A3 20060517**; DE 102004034672 A1 20060216

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