

Title (en)

Fuel injection device for an internal combustion engine

Title (de)

Kraftstoff-Einspritzvorrichtung für eine Brennkraftmaschine

Title (fr)

Dispositif d'injection de carburant pour un moteur de combustion interne

Publication

**EP 1795736 A3 20090325 (DE)**

Application

**EP 06122389 A 20061017**

Priority

DE 102005059163 A 20051212

Abstract (en)

[origin: EP1795736A2] Fuel injection device (10), has two coaxial valve elements (34,36) and has one switching valve (24,26) for independently controlling the valve element. A hydraulic delaying element (71) is arranged between switching valve and valve element, which comprises a pre-control area (64).

IPC 8 full level

**F02M 45/08** (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP)

**F02M 45/086** (2013.01); **F02M 47/027** (2013.01); **F02M 2200/46** (2013.01)

Citation (search report)

- [DX] EP 1069308 A2 20010117 - DELPHI TECH INC [US]
- [X] EP 1584813 A2 20051012 - BOSCH GMBH ROBERT [DE]
- [X] EP 1435453 A1 20040707 - BOSCH GMBH ROBERT [DE]
- [A] DE 10315489 B3 20040826 - BOSCH GMBH ROBERT [DE]
- [A] FR 2818323 A1 20020621 - BOSCH GMBH ROBERT [DE]
- [A] DE 10164123 A1 20030130 - BOSCH GMBH ROBERT [DE]
- [A] FR 2811023 A1 20020104 - BOSCH GMBH ROBERT [DE]
- [A] EP 0494365 A1 19920715 - MAN NUTZFAHRZEUGE AG [DE]
- [A] DE 4213554 A1 19931028 - INGENIEURGESELLSCHAFT FUER AGG [DE]

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 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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