

Title (en)

Fuel injector for internal combustion engines

Title (de)

Kraftstoffeinspritzventil für Brennkraftmaschinen

Title (fr)

Injecteur de combustible pour moteurs à combustion interne

Publication

**EP 1143136 A3 20030910 (DE)**

Application

**EP 01105727 A 20010308**

Priority

DE 10017657 A 20000408

Abstract (en)

[origin: EP1143136A2] The valve has a valve body (10) with an axially movable injection valve element controlling at least one injection opening, a control valve, a connecting bore (74) and an input bore (70) that intersect at an acute angle in a region that is offset relative to an annular chamber (49) between an insert part and the valve body in a direction of the longitudinal axis (11) of the valve body.

IPC 1-7

**F02M 47/02**; **F02M 61/16**; **F02M 55/00**

IPC 8 full level

**F02M 61/10** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 55/00** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)

**F02M 47/027** (2013.01 - EP US); **F02M 61/16** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Citation (search report)

- [A] DE 19650865 A1 19980610 - BOSCH GMBH ROBERT [DE]
- [A] EP 0916842 A1 19990519 - ELASIS SISTEMA RICERCA FIAT [IT]
- [A] DE 3839635 A1 19900531 - BOSCH GMBH ROBERT [DE]

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1143136 A2 20011010**; **EP 1143136 A3 20030910**; **EP 1143136 B1 20041117**; DE 10017657 A1 20011011; DE 50104514 D1 20041223; JP 2001355544 A 20011226; US 2001054653 A1 20011227; US 6488220 B2 20021203

DOCDB simple family (application)

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