

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 1273790 A3 20040818 (DE)**

Application

**EP 02006852 A 20020326**

Priority

DE 10132450 A 20010704

Abstract (en)

[origin: EP1273790A2] The valve has a housing and a piston (30), which engages on a valve needle (10) via a pressure piece (32). The cylindrical pressure piece is guided stationary in a guide sleeve (36) in the housing. It has a dead-end bore (39), open towards the valve piston, with the piston engaging on the base of the bore. A non-central leakage oil bore (37) extending in longitudinal direction of the pressure piece, connects the end face facing the valve needle, to the dead-end bore.

IPC 1-7

**F02M 47/02**; **F02M 61/20**; **F02M 61/12**; **F02M 61/10**

IPC 8 full level

**F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 61/10** (2006.01); **F02M 61/12** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP)

**F02M 47/027** (2013.01); **F02M 61/12** (2013.01); **F02M 61/20** (2013.01)

Citation (search report)

- [DA] DE 19827267 A1 19991223 - BOSCH GMBH ROBERT [DE]
- [A] EP 0690223 A2 19960103 - ELASIS SISTEMA RICERCA FIAT [IT]

Cited by

CN104265533A; CN104806399A; WO2006091429A1

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 1273790 A2 20030108**; **EP 1273790 A3 20040818**; DE 10132450 A1 20030123; DE 10132450 B4 20100211; JP 2003035233 A 20030207

DOCDB simple family (application)

**EP 02006852 A 20020326**; DE 10132450 A 20010704; JP 2002193370 A 20020702