

Title (en)

Fuel injector with optimized sealing surfaces

Title (de)

Einspritzventil mit optimierten Dichtflächen

Title (fr)

Injecteur de carburant avec surfaces d'étanchéité optimisées

Publication

**EP 1148234 A3 20030813 (DE)**

Application

**EP 01109179 A 20010412**

Priority

DE 10019810 A 20000420

Abstract (en)

[origin: EP1148234A2] The valve has a housing (22) with aperture (11), control chamber (4), and valve chamber (12) with valve. The aperture contains an insert (9) with a first sealing surface (18). The housing has a second sealing surface (19), and the two surfaces are clamped together via a seal. An outlet pipe (5,12) from control chamber via valve chamber passes through both surfaces into the insert. The valve chamber is limited by the insert an is at least partially inserted into it.

IPC 1-7

**F02M 47/02**; **F02M 61/16**; **F02M 59/46**

IPC 8 full level

**F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)

**F02M 47/027** (2013.01); **F02M 63/0026** (2013.01); **F02M 63/0035** (2013.01); **F02M 2200/16** (2013.01)

Citation (search report)

- [A] US 5638791 A 19970617 - TSUZUKI YOSHIHIRO [JP], et al
- [A] EP 0851114 A2 19980701 - ELASIS SISTEMA RICERCA FIAT [IT]
- [A] US 4598863 A 19860708 - KANESAKA HIROSHI [JP]
- [A] WO 0006892 A2 20000210 - SIEMENS AG [DE], et al

Cited by

CN104160142A; EP2821633A4; EP2479418A1; US7415920B2

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 1148234 A2 20011024**; **EP 1148234 A3 20030813**; **EP 1148234 B1 20040616**; DE 10019810 A1 20020131; DE 50102573 D1 20040722

DOCDB simple family (application)

**EP 01109179 A 20010412**; DE 10019810 A 20000420; DE 50102573 T 20010412