

Title (en)

Metering device with dynamic sealing

Title (de)

Dosiervorrichtung mit Dynamischer Abdichtung

Title (fr)

Dispositif de dosage avec joint d'étanchéité dynamique

Publication

EP 1445480 A1 20040811 (EN)

Application

EP 03002402 A 20030204

Priority

EP 03002402 A 20030204

Abstract (en)

A metering device for dosing pressurized fluids, in particular an injection valve for a fuel injection system in an internal combustion engine, is disclosed in which the hermetic sealing between the fluid chamber (2) for the pressurized fluid to be dosed and the actuator chamber (9) is provided by an elastic element (10c). The elastic element (10c) is arranged in a compressed manner between a sealing seat (15) of the valve body (1) and a flange section (10b) of a metallic sleeve that additionally comprises a hollow cylinder section (10a) in hermetic rigid contact with the valve needle (4). <IMAGE>

IPC 1-7

F02M 61/16; F02M 61/08; F02M 61/12; F16J 15/56; F02M 51/06

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/08** (2006.01); **F02M 61/12** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 51/0603 (2013.01); **F02M 61/08** (2013.01); **F02M 61/12** (2013.01); **F02M 61/16** (2013.01); **F02M 2200/16** (2013.01); **F02M 2200/707** (2013.01)

Citation (applicant)

EP 1046809 A2 20001025 - SIEMENS AG [DE]

Citation (search report)

- [X] US 3703184 A 19721121 - MESSERSCHMIDT FRIEDRICH
- [A] US 4389018 A 19830621 - THOMA FRANK [DE], et al
- [A] DE 19956830 A1 20010621 - SIEMENS AG [DE]

Cited by

EP1916412A3; EP1808596A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

EP 1445480 A1 20040811; **EP 1445480 B1 20060426**; DE 60304816 D1 20060601; DE 60304816 T2 20061102

DOCDB simple family (application)

EP 03002402 A 20030204; DE 60304816 T 20030204