

Title (en)

Fuel injection pump.

Title (de)

Kraftstoffeinspritzpumpe.

Title (fr)

Pompe d'injection de carburant.

Publication

EP 0451227 B1 19941214

Application

EP 90914055 A 19900928

Priority

- DE 3934953 A 19891020
- DE 9000740 W 19900928

Abstract (en)

[origin: WO9105950A1] In a magnetic valve serving to block a fuel inlet line (10) to supply a pump working chamber of a fuel injection pump with fuel, the closing component (28) has a drilling (50) penetrating from the front which can be closed off by a valve member (61) under the action of a closing spring (57). On the occurrence of pressure surges in the intake line section (31) closed off by the closing member (28) and leading to the pump working chamber, the closing member (28) and the entire cross-section of the intake line section (31) is not opened but only the cross-section of the drilling (50). This drilling is quickly closed again by the low-mass valve member (61) after the surge has passed so that only small quantities of fuel can flow via the drilling (50) to equalise the pressure.

IPC 1-7

F02M 41/12; **F02M 63/02**

IPC 8 full level

F16K 31/02 (2006.01); **F02M 41/12** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP US)

F02M 41/125 (2013.01 - EP US); **F02M 59/466** (2013.01 - EP US); **F02M 63/0215** (2013.01 - EP US)

Cited by

US6148796A; US6138986A; EP0928893A3; EP0928893A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 9105950 A1 19910502; DE 3934953 A1 19910425; DE 59008029 D1 19950126; EP 0451227 A1 19911016; EP 0451227 B1 19941214; ES 2066225 T3 19950301; JP 3145108 B2 20010312; JP H04502502 A 19920507; RU 2018758 C1 19940830; US 5150688 A 19920929

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DE 9000740 W 19900928; DE 3934953 A 19891020; DE 59008029 T 19900928; EP 90914055 A 19900928; ES 90914055 T 19900928; JP 51282690 A 19900928; SU 4895796 A 19910619; US 68792691 A 19910607