

Title (en)

Fuel injection pump

Title (de)

Kraftstoffeinspritzpumpe

Title (fr)

Pompe d'injection de combustible

Publication

**EP 0717181 A3 19970813 (DE)**

Application

**EP 95115124 A 19950926**

Priority

DE 4440749 A 19941115

Abstract (en)

[origin: EP0717181A2] The commencement of injection is adjusted by a first piston (116) incorporating a cylindrical bore (127) for a controlling slider (128) defining a space (46) in continuous communication with the pressure supply line (39). Pressure in the working chamber (120) drives the slider against a return spring (123). To avoid pressure reactions from the working chamber, the slider is actuated by a second piston (55) and a plunger (49) in an axial bore (52). This piston moves in a pressure chamber (56) under parameter-dependent control pressure isolated from the working chamber by the relief chamber (122). The pressure space (56) is joined to a load-relief line (143) in which is arranged an electrically controlled valve (44).

IPC 1-7

**F02D 1/18**; **F02M 41/14**

IPC 8 full level

**F02D 1/18** (2006.01); **F02M 41/14** (2006.01)

CPC (source: EP KR)

**F02D 1/183** (2013.01 - EP); **F02M 41/1416** (2013.01 - EP); **F02M 69/02** (2013.01 - KR); **F02D 2001/186** (2013.01 - EP)

Citation (search report)

- [XAY] GB 2220507 A 19900110 - LUCAS IND PLC [GB]
- [YA] DE 4016462 A1 19910613 - BOSCH GMBH ROBERT [DE]

Cited by

WO0026520A1

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

**DE 4440749 A1 19960523**; EP 0717181 A2 19960619; EP 0717181 A3 19970813; JP H08210154 A 19960820; KR 960018213 A 19960617

DOCDB simple family (application)

**DE 4440749 A 19941115**; EP 95115124 A 19950926; JP 29534095 A 19951114; KR 19950041237 A 19951114