

Title (en)

DEVICE FOR SUPPLYING HIGH PRESSURE FUEL TO AN INTERNAL COMBUSTION ENGINE

Title (de)

VORRICHTUNG ZUR KRAFTSTOFF-HOCHDRUCKVERSORGUNG EINER BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF POUR ALIMENTER UN MOTEUR A COMBUSTION INTERNE EN CARBURANT SOUS HAUTE PRESSION

Publication

**EP 1356203 A1 20031029 (DE)**

Application

**EP 01991686 A 20011222**

Priority

- DE 0104915 W 20011222
- DE 10102234 A 20010119

Abstract (en)

[origin: DE10102234A1] The high pressure fuel supply, for an internal combustion motor with fuel injection, has a piston (5) which slides within the drilling (3) of a valve body (1). The piston movement is guided by a sealing section (105) within a guide section (103) of the drilling, where fuel is fed into a pressure zone (19) at one end of the guide section under high pressure. An oil leakage zone (15) is at the other end of the guide section. The piston sealing section has at least one groove (30) in a hydraulic link with the pressure zone, as far as a ring gap between the piston and the inner wall of the guide section. The ring gap is sealed against the leakage zone. The piston is centered hydraulically within the drilling.

IPC 1-7

**F02M 61/12**

IPC 8 full level

**F02M 61/12** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)

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Citation (search report)

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