

Title (en)

HIGH PRESSURE PUMP FOR A FUEL INJECTION DEVICE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

HOCHDRUCKPUMPE FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)

POMPE HAUTE PRESSION POUR UN DISPOSITIF D'INJECTION DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1576287 A1 20050921 (DE)**

Application

**EP 03785577 A 20031216**

Priority

- DE 0304134 W 20031216
- DE 10259178 A 20021218

Abstract (en)

[origin: WO2004055368A1] The invention relates to a high pressure pump which comprises a body (10) and at least one pumping element (10) which is arranged therein and provided a pumping piston (34) actuated by means of a transmitting element (28) in a reciprocating movement produced by a driven shaft (12) which is rotationally arranged in said body (10) by means of at least one bearing point (14, 16). Said drive shaft (12) comprises an eccentric segment (26) on which a transmission element (28) is rotationally arranged by means of a bearing point (30). Lubrication fuel is supplied to the bearing point (30) of the transmission element (28) on the eccentric segment (26) of the drive shaft (12) by means of a system of channels (54, 55, 57) therethrough.

IPC 1-7

**F04B 1/04**

IPC 8 full level

**F04B 1/04** (2006.01)

CPC (source: EP US)

**F04B 1/0404** (2013.01 - EP US); **F04B 1/0413** (2013.01 - EP US)

Citation (search report)

See references of WO 2004055368A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

**WO 2004055368 A1 20040701**; CN 1729360 A 20060201; DE 10259178 A1 20040708; EP 1576287 A1 20050921; JP 2006510835 A 20060330; US 2006239847 A1 20061026

DOCDB simple family (application)

**DE 0304134 W 20031216**; CN 200380107002 A 20031216; DE 10259178 A 20021218; EP 03785577 A 20031216; JP 2004559613 A 20031216; US 53974903 A 20031216