

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication
EP 1576283 A1 20050921 (DE)

Application
EP 03813515 A 20030528

Priority
• DE 0301734 W 20030528
• DE 10259169 A 20021218

Abstract (en)
[origin: WO2004057180A1] The invention relates to a fuel injection valve, comprising a valve body (1) in which a drilling (2) is embodied, defined at one end by a valve seat (11) from which at least one injection channel (14) exits. A valve needle (7) is arranged such as to displace longitudinally in said drilling (2) which comprises a valve sealing surface (12) at the end thereof facing the valve seat (11), which cooperates with said valve seat (11) to open and close the at least one injection channel (14). A pressure chamber (5) is embodied between the valve needle (7) and the wall of the drilling (2), which may be filled with fuel under pressure. A pressure surface (30) is embodied on the valve needle (7), facing the valve seat (11), which may be connected to the pressure chamber (5) by means of a throttling point (26) on application of the valve needle (7) on the valve seat (11).

IPC 1-7
F02M 61/18; **F02M 45/08**

IPC 8 full level
F02M 45/08 (2006.01); **F02M 61/18** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 45/08 (2013.01); **F02M 45/086** (2013.01); **F02M 61/1873** (2013.01); **F02M 2200/28** (2013.01); **F02M 2200/304** (2013.01); **F02M 2200/46** (2013.01)

Citation (search report)
See references of WO 2004057180A1

Designated contracting state (EPC)
DE FR IT

DOCDB simple family (publication)
DE 10259169 A1 20040701; CN 100593082 C 20100303; CN 1717539 A 20060104; EP 1576283 A1 20050921; WO 2004057180 A1 20040708

DOCDB simple family (application)
DE 10259169 A 20021218; CN 03825689 A 20030528; DE 0301734 W 20030528; EP 03813515 A 20030528