

Title (en)
FUEL INJECTION VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1056946 B1 20040317 (DE)

Application
EP 99966843 A 19991208

Priority
• DE 9903914 W 19991208
• DE 19859592 A 19981222

Abstract (en)
[origin: DE19859592C1] The fuel injection valve injects fuel from a central high pressure reservoir (1) into the combustion chamber. The reservoir is in connection with a control chamber (2) via a feed throttle bore (10). The pressure in the control chamber controls the opening and closing of an injection nozzle. The control chamber is connected via an outlet throttle bore, to a switch valve which opens or closes the outlet of the outlet throttle bore. The inlet throttle bore is eccentric to the control chamber so that a rotational axis of a rotation flow generated by the inflow from the inlet bore is parallel to the inflow direction if the fuel into the outlet flow bore.

IPC 1-7
F02M 47/02

IPC 8 full level
F02M 47/00 (2006.01); **F02M 47/02** (2006.01)

CPC (source: EP US)
F02M 47/02 (2013.01 - EP US); **F02M 55/008** (2013.01 - EP US)

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19859592 C1 20000504; DE 59908888 D1 20040422; EP 1056946 A1 20001206; EP 1056946 B1 20040317; JP 2002533608 A 20021008; US 6382185 B1 20020507; WO 0037794 A1 20000629

DOCDB simple family (application)
DE 19859592 A 19981222; DE 59908888 T 19991208; DE 9903914 W 19991208; EP 99966843 A 19991208; JP 2000589827 A 19991208; US 62267700 A 20001103