

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1080304 A1 20010307 (DE)

Application
EP 00929215 A 20000316

Priority
• DE 0000820 W 20000316
• DE 19912665 A 19990320

Abstract (en)
[origin: DE19912665A1] The invention relates to a fuel injection valve (1), more particularly, an injection valve in fuel injection systems of internal combustion engines, having a fuel inlet (4) for supplying fuel, a piezoelectric or magnetorestrictive actuator (13) which is sealed against the fuel by a sealing (18, 19) and a valve closing body (6) which can be actuated by the actuator (13) by means of a valve needle (5). The valve closing body (6) engages with a valve seat surface (8) to form a sealed seat. The sealing (18, 19) comprises a sealing plate (18) that is arranged between the fuel inlet (4) and the actuator (13) and that is provided with a fuel channel (21') in order to supply the fuel from the fuel inlet (4) in the direction towards the sealed seat.

IPC 1-7
F02M 51/06

IPC 8 full level
F02M 51/06 (2006.01); **F02M 51/08** (2006.01); **F02M 61/08** (2006.01); **F16K 31/02** (2006.01); **H10N 30/20** (2023.01); **H10N 35/00** (2023.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)
F02M 51/06 (2013.01 - KR); **F02M 51/0603** (2013.01 - EP US); **F02M 61/08** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19912665 A1 20000921; CN 1145745 C 20040414; CN 1297513 A 20010530; DE 50008203 D1 20041118; EP 1080304 A1 20010307; EP 1080304 B1 20041013; JP 2002540342 A 20021126; KR 20010043661 A 20010525; RU 2244151 C2 20050110; US 6467460 B1 20021022; WO 0057050 A1 20000928

DOCDB simple family (application)
DE 19912665 A 19990320; CN 00800360 A 20000316; DE 0000820 W 20000316; DE 50008203 T 20000316; EP 00929215 A 20000316; JP 2000606892 A 20000316; KR 20007012858 A 20001116; RU 2000132709 A 20000316; US 70082401 A 20010122