

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1114251 A1 20010711 (DE)

Application
EP 00952923 A 20000713

Priority
• DE 0002279 W 20000713
• DE 19932760 A 19990714

Abstract (en)
[origin: DE19932760A1] The invention concerns a fuel injection valve (1) in particular an injection valve designed to be mounted in the fuel injection system for an internal combustion engine. Said fuel injection valve (1) comprises a piezoelectric or magnetostrictive actuator (16) mounted in a valve body (2), sealingly protected against the fuel by an actuator housing (15), and a closure (7) capable of being actuated by the actuator (16) by a valve needle (6) co-operating with a valve seat surface (5) to form a sealed zone. The valve body (2) and the actuator housing (15) have adjacent recesses (38, 39), and the valve body (2) is coupled to the actuator housing (15), in a marginal zone of the recesses (38, 39). Thus a communicating orifice is formed (41) sealed against the fuel. Said communicating orifice (41) is filled with a filler element (43) whereto at least an electric supply line (37) of the actuator (16) is fixed inside said communicating orifice (41).

IPC 1-7
F02M 51/06; **F02M 61/08**

IPC 8 full level
F02M 51/00 (2006.01); **F02M 51/06** (2006.01); **F02M 61/08** (2006.01); **H01L 41/09** (2006.01)

CPC (source: EP US)
F02M 51/005 (2013.01 - EP US); **F02M 51/0603** (2013.01 - EP US)

Citation (search report)
See references of WO 0106115A1

Cited by
DE102007047438A1; WO2007048496A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 19932760 A1 20010118; DE 50009353 D1 20050303; EP 1114251 A1 20010711; EP 1114251 B1 20050126; JP 2003504560 A 20030204; US 6474565 B1 20021105; WO 0106115 A1 20010125

DOCDB simple family (application)
DE 19932760 A 19990714; DE 0002279 W 20000713; DE 50009353 T 20000713; EP 00952923 A 20000713; JP 2001510722 A 20000713; US 78714101 A 20010615