

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1392963 B1 20071010 (DE)**

Application  
**EP 02737816 A 20020424**

Priority  
• DE 0201500 W 20020424  
• DE 10123850 A 20010516

Abstract (en)  
[origin: WO02092995A1] A fuel injection valve (1) comprising a magnet coil (10) which co-operates with an armature (20) which is impinged upon by a return spring (23), said armature forming, together with a valve needle (3), a valve part which is axially moveable. A valve sealing body (5) is provided on the valve needle (3), forming a tight seat with a valve seat body (5). A flange (14) penetrating the armature (20) via a recess (19) of said armature (20), connected to the valve needle (3) in a non-positive fit, is provided with at least one radial fuel channel (11) which is used to connect an inner area (29) of the fuel injection valve (1) to a recess (22) of the valve needle (3) when the fuel injection valve (1) is actuated.

IPC 8 full level  
**F02M 51/06** (2006.01); **F02M 51/08** (2006.01)

CPC (source: EP KR US)  
**F02M 51/0682** (2013.01 - EP US); **F02M 61/16** (2013.01 - KR)

Citation (examination)  
US 5979803 A 19991109 - PETERS LESTER L [US], et al

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 02092995 A1 20021121**; BR 0205280 A 20030701; BR 0205280 B1 20110125; CN 1308590 C 20070404; CN 1462339 A 20031217; CZ 200367 A3 20040818; DE 10123850 A1 20021128; DE 10123850 C2 20030626; DE 50211051 D1 20071122; EP 1392963 A1 20040303; EP 1392963 B1 20071010; JP 2005500451 A 20050106; JP 4064244 B2 20080319; KR 100826462 B1 20080502; KR 20030013519 A 20030214; US 2004011897 A1 20040122; US 6910643 B2 20050628

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