

Title (en)  
FUEL INJECTION VALVE

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1290335 B1 20041027 (DE)**

Application  
**EP 01933624 A 20010424**

Priority  
• DE 0101540 W 20010424  
• DE 10025497 A 20000523

Abstract (en)  
[origin: WO0190565A1] The invention relates to a fuel injection valve (1) for internal combustion engines, comprising a valve housing (4) with an axially movable valve member for opening and closing an injection opening (7) of the injection valve, and a part (6) which acts in the closing direction of the valve member (60) and which is guided in a bore (11) of a first valve piece with the end facing away from the injection opening (7), said valve piece being introduced into the valve housing (4), and which closes a control pressure chamber (14) in the first valve piece (12) with this end. According to the invention, at least the section of the delivery channel (16) that is provided with the delivery throttle (15) is situated on the second valve piece (40) introduced into the valve housing, said second valve piece being connected to an opening (45) configured in the first valve piece in such a way that the section of the delivery channel of the second valve piece (40) that is provided with the delivery throttle (15) opens out into the control pressure chamber of the first valve piece.

IPC 1-7  
**F02M 47/02**

IPC 8 full level  
**F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)  
**F02M 45/02** (2013.01 - KR); **F02M 47/02** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Citation (examination)  
EP 1118765 A2 20010725 - CRT COMMON RAIL TECH AG [CH]

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 0190565 A1 20011129**; BR 0106657 A 20020402; CN 1380939 A 20021120; CZ 2002201 A3 20030618; DE 10025497 A1 20011129; DE 50104303 D1 20041202; EP 1290335 A1 20030312; EP 1290335 B1 20041027; JP 2003534492 A 20031118; KR 20020019555 A 20020312; US 2004069863 A1 20040415

DOCDB simple family (application)  
**DE 0101540 W 20010424**; BR 0106657 A 20010424; CN 01801351 A 20010424; CZ 2002201 A 20010424; DE 10025497 A 20000523; DE 50104303 T 20010424; EP 01933624 A 20010424; JP 2001586734 A 20010424; KR 20027000907 A 20020122; US 3171302 A 20020426