

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1366286 B1 20051221 (DE)**

Application  
**EP 02721981 A 20020227**

Priority  
• DE 0200694 W 20020227  
• DE 10109407 A 20010228

Abstract (en)  
[origin: WO02068814A1] The invention relates to a fuel injection valve (1), in particular, for directly injecting fuel into the combustion chamber of a mixture-compressing, spark-ignition internal combustion engine. Said fuel injection valve comprises a valve housing consisting of a nozzle body (2), and comprises a sealing ring (34), which seals the fuel injection valve (1) against a cylinder head (36) of the internal combustion engine. The sealing ring (34) is shaped in a convexly arched manner, whereby both ends (35) of the sealing ring (34) overlap in an axially stepped manner.

IPC 1-7  
**F02M 61/14**

IPC 8 full level  
**F02F 1/24** (2006.01); **F02M 51/06** (2006.01); **F02M 61/14** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP US)  
**F02M 51/0671** (2013.01 - EP US); **F02M 61/14** (2013.01 - EP US); **F02M 2200/858** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 02068814 A1 20020906**; CN 1457392 A 20031119; CZ 20023491 A3 20040512; DE 10109407 A1 20020905; DE 50205341 D1 20060126; EP 1366286 A1 20031203; EP 1366286 B1 20051221; JP 2004518862 A 20040624; US 2003155446 A1 20030821; US 6921033 B2 20050726

DOCDB simple family (application)  
**DE 0200694 W 20020227**; CN 02800450 A 20020227; CZ 20023491 A 20020227; DE 10109407 A 20010228; DE 50205341 T 20020227; EP 02721981 A 20020227; JP 2002567694 A 20020227; US 27502403 A 20030404