

Title (en)  
Fuel injection valve

Title (de)  
Brennstoffeinspritzventil

Title (fr)  
Buse d'injection de carburant

Publication  
**EP 1559906 A3 20070214 (DE)**

Application  
**EP 05001507 A 20050126**

Priority  
DE 102004004169 A 20040128

Abstract (en)  
[origin: EP1559906A2] The fuel injection valve has an actuator and valve closure body (4) interacting with valve seat (6) to provide a sealing seat. The valve seat body (5) has a discharge opening (7) which has at the downstream end flow discharge edges (39) running in a groove (38). The sealing seat directly adjoins the groove. The groove can be disposed partially in the valve closure body and partially in the valve seat body. When the sealing seat is closed the flow discharge edges are arranged at the same height.

IPC 8 full level  
**F02M 61/08** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)  
**F02M 61/08** (2013.01); **F02M 61/18** (2013.01); **F02M 61/1873** (2013.01); **F02M 51/0671** (2013.01); **F02M 51/0685** (2013.01);  
**F02M 2200/16** (2013.01)

Citation (search report)  
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• [Y] DE 3740462 A1 19890608 - BOSCH GMBH ROBERT [DE]  
• [X] WO 9325814 A1 19931223 - BOSCH GMBH ROBERT [DE], et al  
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• [X] WO 9904159 A1 19990128 - ZEXEL CORP [JP], et al  
• [X] DE 4039520 A1 19910704 - NIPPON DENSO CO [JP]  
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• [E] EP 1655482 A1 20060510 - SIEMENS AG [DE]

Cited by  
GB2613396A; GB2613396B

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**EP 1559906 A2 20050803; EP 1559906 A3 20070214;** DE 102004004169 A1 20050818

DOCDB simple family (application)  
**EP 05001507 A 20050126;** DE 102004004169 A 20040128