

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE COMBUSTIBLE

Publication  
**EP 1379773 A1 20040114 (DE)**

Application  
**EP 02727237 A 20020316**

Priority  
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• DE 10118163 A 20010411

Abstract (en)  
[origin: WO02084104A1] A fuel injection valve (1) for fuel injection systems of internal combustion engines comprises a solenoid (10), a valve needle (3), which is actively connected to the solenoid (10) and which, in a closing direction, is subjected to the action of a return spring (23). The valve needle is provided for actuating a valve closing body (4) that forms a tight seat with a valve seating (6), which is provided on a valve seat body (5). The fuel injection valve also comprises at least two spraying openings (7) that are provided in the valve seat body (5). The spraying openings (7) are provided in the valve seat body (5) in a manner that shields them from circulating gas mixture flows in a combustion chamber of the internal combustion engine.

IPC 1-7  
**F02M 51/06**; **F02M 61/18**

IPC 8 full level  
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**F02M 51/0664** (2013.01 - EP US); **F02M 51/0685** (2013.01 - EP US); **F02M 61/1806** (2013.01 - EP US); **F02M 61/1833** (2013.01 - EP US); **F02M 2200/306** (2013.01 - EP US); **Y10S 239/90** (2013.01 - EP US)

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