

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT

Publication  
**EP 1339975 B1 20041208 (DE)**

Application  
**EP 01998732 A 20011126**

Priority  
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Abstract (en)  
[origin: DE10059007A1] A fuel injection valve (1) for fuel injection systems of internal combustion engines comprises a valve needle (3), a valve closing body which is functionally connected thereto and which interacts with a valve seat surface (6) that is located on a valve seat body (5) to form a sealed seat; and several injection openings (7) which are made in a nozzle hole disk (31), the latter being located downstream of the sealed seat on the fuel injection valve (1). Said nozzle hole disk (31) has a spherical cap-shaped arch (37), at least in the area of the injection openings (7), which is oriented in the opposite direction to the direction of flow of the fuel. The injection openings (7) are arranged in a spiral shape on the spherical cap-shaped arch (37) of the nozzle hole disk.

IPC 1-7  
**F02M 61/18**

IPC 8 full level  
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