

Title (en)  
FUEL INJECTION VALVE

Title (de)  
BRENNSTOFFEINSPRITZVENTIL

Title (fr)  
SOUPAPE D'INJECTION DE COMBUSTIBLE

Publication  
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Application  
**EP 10787447 A 20101206**

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Abstract (en)  
[origin: WO2011082916A1] The fuel injection valve according to the invention is characterized in particular in that an inflow from the injection openings (32) that is uniform and stable over time is generated and a reduction in the scatter in the jet and throughput characteristics is achieved. The fuel injection valve (1) comprises at least one energizable actuator and a valve element that can be moved along a valve longitudinal axis and interacts in a sealing manner with a valve seat (28). Provided upstream of the valve seat (28), on the circumference, are a plurality of flow regions (26), between which in each case guide regions (30) for the valve element are located. The injection openings (32) downstream of the valve seat (28), the number of which differs from the number of flow regions (26), discharge the fuel finely atomized. At least two flow regions (26) differ in size, such as circumferential width and/or radial depth, and/or contour. The fuel injection valve is suitable in particular for the direct injection of fuel into a combustion chamber of a mixture-compressing spark-ignition internal combustion engine.

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

CPC (source: EP KR US)  
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