

Title (en)
FUEL INJECTION VALVE

Title (de)
BRENNSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 3397851 A1 20181107 (DE)

Application
EP 16805141 A 20161202

Priority
• DE 102015226769 A 20151229
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Abstract (en)
[origin: WO2017114634A1] The fuel injection valve according to the invention is characterised by a particularly high structural strength and vibration resistance of the valve seat body (5). The fuel injection valve (1) comprises an excitable actuator for actuating a valve closing body, which forms a sealing seat together with a valve seat surface (6) formed on the valve seat body (5), and spraying openings (7) that are formed downstream of the valve seat surface (6), wherein the spraying openings (7) are introduced in a middle region (44) of the valve seat body (5) projecting outwards in a peak-like manner in the spraying direction. The peak-like axially-projecting middle region (44) of the valve seat body (5) ends radially outside the mouth regions of all the spraying openings (7) in a peripheral sunken recess (47), from which an axially projecting edge region (48) of the valve seat (5) connects radially outwards, so that in cross-section a wave-like peak contour of the valve seat body (5) is formed. The fuel injection valve is suitable in particular for the direct injection of fuel into a combustion chamber of a mixture-compressing external spark-ignition combustion engine.

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Citation (search report)
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