

Title (en)  
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)  
BRENNSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)  
SOUPAPE D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE

Publication  
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Application  
**EP 04738091 A 20040714**

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Abstract (en)  
[origin: WO2005008059A1] According to the invention, the lower part of a longitudinal housing is embodied as a valve seat element (2b) containing a valve seat part (4). Said valve seat part (4) comprises a valve seat (5) provided with injection openings (6), and is embodied as a nozzle body which is separate from the valve seat element (2b) and connected to the same. An injection valve member (9) is guided in the housing in a longitudinally displaceable manner and co-operates with the valve seat (5) in order to close and open the injection openings (6). The outer side of said valve seat part (4) is provided with a seat surface (26) formed by the envelope surface of a circular cone. Said seat surface (26) is used to position the valve seat part (4) on a bearing surface (27) on the valve seat element (2b), also formed by the envelope surface of a circular cone. The half opening angles (28) of the circular cones fixing the seat surface (26) and the bearing surface (27) are selected in such a way that the nozzle bodies (4) are held in the valve seat element (2b) in a self-locking and sealing manner.

IPC 8 full level  
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