

Title (en)
FUEL INJECTION VALVE FOR INTERNAL COMBUSTION ENGINES

Title (de)
KRAFTSTOFFEINSPRITZVENTILL FÜR BRENNKRAFTMASCHINEN

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

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Application
EP 06743259 A 20060406

Priority
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Abstract (en)
[origin: WO2006128756A1] The invention relates to a fuel injection valve for internal combustion engines having a valve body (1) in which a blind hole (10) is formed, with at least one injection opening (7) proceeding from said blind hole (10). A longitudinally displaceable needle (5) is arranged in the valve body (1), with a valve sealing face (11) being formed at that end of said valve needle (5) which faces towards the blind hole (10), said valve sealing face (11) being formed from one or more conical faces, and the valve needle (5) interacting, by means of a body seat (9), with said valve sealing face (11) to control a fuel flow to the at least one injection opening (7). A needle tip (30) adjoins the valve sealing face (11), said needle tip (30) dipping into the blind hole (10) when the valve needle (5) bears against the body seat (9), the needle tip (30) being curved in a concave fashion directly adjacent to the valve sealing face (11).

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Citation (examination)
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