

Title (en)  
FUEL INJECTOR FOR COMBUSTION ENGINE

Title (de)  
KRAFTSTOFFEINSPRITZVENTIL FÜR BRENNKRAFTMASCHINEN

Title (fr)  
INJECTEUR DE CARBURANT POUR MOTEUR À COMBUSTION

Publication  
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Application  
**EP 12809283 A 20121227**

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Abstract (en)  
[origin: WO2013098307A1] The invention relates to a fuel injection valve with a nozzle needle (10) to which the pressure in a control chamber (22) is at least indirectly applied in a closing direction. The control chamber (22) can be filled with highly pressurized fuel. The fuel injection valve is equipped with a control valve (3) which opens or closes a connection to a low-pressure chamber (25) in the fuel injection valve, said control valve (22) comprising a movable control valve element (4). A connection of the control chamber (22) to the low-pressure chamber (25) is formed by a valve chamber (20) in the fuel injection valve. The valve chamber (20) is hydraulically connected to the control chamber (22) via a throttle connection (23), and the valve chamber (20) can be connected to the low-pressure chamber (25) via the control valve (3). Furthermore, a pressure pin (30) is provided which protrudes through the valve chamber (20) into the control chamber (22). A hydraulic pressure is applied to the pressure pin (30) by the pressure in the control chamber (22), and an opening force is thereby exerted on the control valve element (4).

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