

Title (en)  
INJECTOR FOR INTERNAL COMBUSTION ENGINES

Title (de)  
INJEKTOR FÜR BRENNKRAFTMASCHINEN

Title (fr)  
INJECTEUR POUR DES MOTEURS À COMBUSTION INTERNE

Publication  
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Application  
**EP 07787434 A 20070712**

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Abstract (en)  
[origin: WO2008025607A1] The invention relates to an injector for injecting highly pressurized fuel into a combustion chamber of an internal combustion engine, having an injector body (1) in which a nozzle needle (10) is arranged so as to be longitudinally movable and which, by means of its longitudinal movement, controls the opening of at least one injection opening (12) by interacting with a valve seat (13). A control space (16) is formed in the injector, which control space (16) can be filled with highly pressurized fuel, wherein the fuel pressure in the control space (16) serves to at least indirectly exert a closing force on the nozzle needle (10) in the direction of the valve seat (13). The control space (16) can be connected by means of a control valve (8) to a leakage oil space (32), such that the control space (16) can be relieved of pressure, wherein the control valve (8) has a control valve element (30) which can be moved by an actuator (33). A high-pressure inflow tube (25) is arranged in the injector body (1), which high-pressure inflow tube (25) conducts the compressed fuel to the control space (16), wherein the control valve element (30) is mounted, so as to be movable in a sliding fashion, on the high-pressure inflow tube (25).

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