

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFINJEKTOR

Title (fr)  
INJECTEUR DE DARBURANT

Publication  
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Application  
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Abstract (en)  
[origin: WO2015078629A1] The invention relates to a fuel injector (10) comprising an injector housing (11) in which at least one injection port (17) is designed for injecting fuel into the combustion chamber of an internal combustion engine, wherein the through flow through the at least one injection port (17) can be controlled by means of an injection member (15), in particular a nozzle needle, reciprocatingly moveable in a longitudinal axis (12), wherein the injection member (15) is arranged in a high pressure chamber (18) and has an end region, sunk into an element (25; 25a) delimiting a control chamber (45) facing away from the at least one injection port (17), and wherein the high pressure chamber (18) is hydraulically connected to the control chamber (45) via at least one inflow channel (48, 49; 51; 55) and can be depressurized into a low pressure region (50) via an outflow channel (46). According to the invention the at least one inflow channel (48, 49; 51; 55) is designed to form a laminar through flow of the fuel.

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