

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFF-INJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Application
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Abstract (en)
[origin: WO2009153087A1] The invention relates to a fuel injector, in particular common rail injector, for injecting fuel into a combustion chamber of an internal combustion engine, having a fuel return port (10) and having a single-part or multi-part injection valve element (13) which can be adjusted between an open position and a closed position and which is arranged at least in sections in a high-pressure chamber (8) which is provided in an injector body (19). According to the invention, an annular chamber (42) is arranged radially between the high-pressure chamber (8) and the injector body (19), in which annular chamber (42), during the operation of the fuel injector (1), the fuel pressure is at least intermittently lower than the fuel pressure in the high-pressure chamber (8) and higher than the fuel pressure in the fuel return port (10).

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