

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFINJEKTOR

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
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Application  
**EP 17714205 A 20170329**

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Abstract (en)  
[origin: WO2017182242A1] The invention relates to a fuel injector (100) for injecting fuel into the combustion space of an internal combustion engine, wherein the fuel injector (1) comprises a holder (1) and a nozzle body (16). The holder (2) and the nozzle body (16) are clamped together by means of a nozzle clamping nut (7). In the nozzle body (16) there is formed a pressure space (8) which can be supplied with pressurized fuel via a supply bore (64). A nozzle needle (6), which either opens or closes at least one injection opening (60), is arranged in the pressure space (8) such that it can move longitudinally. A cooling cap (20) is arranged so as to radially surround the nozzle body (16). A cooling space (19), through which coolant can flow, is formed between the nozzle body (16) and the cooling cap (20). A guide sleeve (11) is arranged radially between the holder (1) and the nozzle body (16) on one hand and the nozzle clamping nut (7) on the other. An inflow channel (14) for supplying the coolant is formed between the guide sleeve (11) and the nozzle clamping nut (7), the inflow channel (14) being hydraulically connected to the cooling space (19).

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