

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

Publication
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Application
EP 15712356 A 20150325

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Abstract (en)
[origin: WO2015150183A1] The invention relates to a fuel injector (10; 10a; 10b), having an injector housing (11), in which a high pressure chamber (28) is configured, having an injection element (30) which is arranged in the injector housing (11) and can be raised and lowered, in the form of a nozzle needle (38) for at least indirect opening and closing of at least one injection opening (24) which is configured in the injector housing (11), and having an armature (32) which is arranged in an operative connection with the injection element (30), as a constituent part of a magnetic actuator. It is provided according to the invention that the injection element (30) is arranged radially within a needle guide sleeve (40; 40b), that the needle guide sleeve (40; 40b) is arranged in the injector housing (11) such that it can be raised and lowered, that the needle guide sleeve (40; 40b) forms a sealing seat (58) in the direction of the at least one injection opening (24) in a lowered position and releases a throughflow of fuel in the direction of the at least one injection opening (24) in a raised position, and that the needle guide sleeve (40; 40b) has a blind hole-shaped receptacle (41) for the nozzle needle (38), wherein an outflow bore (42) is provided on the bottom of the receptacle (41), which outflow bore (42) can be closed by means of the nozzle needle (38) by way of a formation of a sealing seat (57) and is connected hydraulically to the at least one injection opening (24).

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Citation (search report)
See references of WO 2015150183A1

Citation (examination)
• DE 10320491 A1 20050303 - VOLKSWAGEN AG [DE]
• EP 2204570 A1 20100707 - BOSCH GMBH ROBERT [DE]

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