

Title (en)  
FUEL INJECTOR

Title (de)  
KRAFTSTOFFEINSPRITZER

Title (fr)  
INJECTEUR DE CARBURANT

Publication  
**EP 3545186 B1 20210106 (FR)**

Application  
**EP 17797971 A 20171121**

Priority  
• FR 1661416 A 20161123  
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Abstract (en)  
[origin: WO2018095922A1] A fuel injector (10) arranged to deliver fuel to an engine, the injector comprising: an injector body (16) extending along a longitudinal axis (X) comprising a bore (26) and a high-pressure chamber (56), and a needle (14) arranged so as to slide in the bore (26) between a top guide (20) and a bottom guide (21), a piston (22) comprising a magnetic armature (48) and a shaft (50) extending along the longitudinal axis (X), an actuator (18) comprising a fixed solenoid (44) generating, when electrically powered, an opening force on the magnetic armature (48), and a return spring (58) generating a closing force on the piston (22) when the solenoid (44) is not powered, characterised in that the injector (10) comprises a high-pressure channel (24), and in that the injector (10) also comprises a force amplifier (56) arranged between the shaft (50) and the needle (14).

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