

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Application
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Abstract (en)
[origin: US8038083B2] The invention relates to a fuel injector for injecting fuel into a combustion chamber, having a solenoid valve for controlling a mini-servo valve. A movable armature can be placed in a sealing fashion on a valve seat in a lower armature chamber, wherein in addition, the mini-servo valve is held in an injector body and seals a control line against a flat seat. By means of the flat seat, during an actuation of the solenoid valve, the control line can be relieved of pressure from a high fuel pressure to a return pressure into at least one return line. A mechanism for reducing pressure oscillations are provided in the at least one return line, which includes at least one diaphragm cell which is held in a recess and which is placed in fluidic connection with the at least one return bore. A fuel injector with the mechanism for reducing pressure oscillations is therefore created in the at least one return line which operates without a leakage flow and has a simple and effective function.

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