

Title (en)
FUEL INJECTOR

Title (de)
KRAFTSTOFFINJEKTOR

Title (fr)
INJECTEUR DE CARBURANT

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Abstract (en)
[origin: WO2013000618A1] The invention relates to a fuel injector (100), having a holding body (2) and a nozzle body (8) which is clamped axially against the holding body (2) by means of a nozzle clamping nut (9) with a restrictor plate (6) and a valve plate (4) being arranged in between, wherein a control valve (30) which can be switched between at least two switching positions is arranged in the valve plate (4) in a control-valve chamber (31), which control valve (30) can be actuated by means of an actuator which is arranged in an actuator chamber (23) of the holding body (2) and is preferably configured as a piezoelectric actuator, wherein fuel can flow through the actuator chamber (23) which is coupled hydraulically to a return bore (65) via a connection (73), and wherein a return quantity of the fuel which escapes from the control-valve chamber (31) during the switching of the control valve (30) and/or a return quantity of the fuel which escapes from the control-valve chamber (31) in the switching pauses of the control valve (30) can be discharged at least indirectly into the return bore (65) via a further connection. According to the invention, it is provided that the further connection has a flow path which comprises the annular chamber (5) between the nozzle clamping nut (9) and the nozzle body (8) and/or the valve plate (4) and/or the restrictor plate (6).

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