

Title (en)

PIEZOELECTRIC INJECTOR FOR FUEL INJECTION

Title (de)

PIEZO-INJEKTOR ZUR KRAFTSTOFFEINSPRITZUNG

Title (fr)

INJECTEUR PIÉZOÉLECTRIQUE POUR L'INJECTION DE CARBURANT

Publication

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Application

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Abstract (en)

[origin: WO2017063988A1] The invention relates to a piezoelectric injector (1) for fuel injection, comprising a nozzle unit (3) having a nozzle needle (5) movably arranged in a nozzle body (7); a piezoelectric actuator unit (9); a hydraulic coupler unit (11) for coupling the nozzle unit (3) with the actuator unit (9), which has a coupler piston (13), a coupler cylinder (15) and a coupler spring (17), wherein the coupler piston (13) has an upper side (26) facing the coupler cylinder (15) and an underside (28) facing the nozzle needle (5), wherein the coupler piston (13) is pressed by the coupler spring (17) against an end face (23) of the nozzle needle (5) facing the underside (28) of the coupler piston (13) and has a contact surface (21) with the nozzle needle (5), wherein the coupler piston (13) has a through opening (25) which provides a flow connection from the underside (28) thereof to the upper side (26) thereof, and which is arranged within the contact surface (21) with the nozzle needle (5).

IPC 8 full level

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