

Title (en)

HIGH-PRESSURE PUMP FOR A FUEL INJECTION DEVICE

Title (de)

HOCHDRUCKPUMPE FÜR EINE KRAFTSTOFFEINSPRITZVORRICHTUNG

Title (fr)

POMPE HAUTE PRESSION POUR UN DISPOSITIF D'INJECTION DE CARBURANT

Publication

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Application

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Abstract (en)

[origin: WO2012048961A1] The invention relates to a high-pressure pump (1) of a fuel injection device, which can be used in particular for a common rail injection device of an internal combustion engine. The high-pressure pump (1) comprises a pump shaft or drive shaft, which is connected to an eccentric (6) in a rotationally rigid manner, and at least one pump element (8). The pump element (8), including a bucket tappet (13), a piston element (12) and a tappet spring (14), is inserted into a housing bore (16) of an engine block (3). The bucket tappet (13), on which the tappet spring (14) acts, is connected to the piston element (12), which is guided such that it can be moved in a reciprocating manner in a cylinder bore (19) of a shaft section (20) and which delimits a pump working chamber (21) connected to a suction valve (22) and a high-pressure valve (23). A drive connection between the bucket tappet (13) and the eccentric (6) comprises a running ring (9) rotatably mounted on the eccentric (6), on which the sliding plate (18) of the bucket tappet (13) is supported in a force-closed manner.

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