Title (en)

HIGH-PRESSURE FUEL PUMP FOR A FUEL INJECTION SYSTEM

Title (de)

KRAFTSTOFFHOCHDRUCKPUMPE FÜR EIN KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)

POMPE À CARBURANT HAUTE PRESSION POUR UN SYSTÈME D'INJECTION DE CARBURANT

Publication

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Application

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Abstract (en)

[origin: WO2013098301A1] The invention relates to a high-pressure fuel pump, in particular a plug-in pump, for a fuel injection system for injecting fuel into the combustion chamber of an internal combustion engine, comprising a pump piston (1) which can carry out a stroke movement and the first end (1.1) of which is guided in a hollow cylinder (2) and the second end (1.2) is indirectly supported on a camshaft or eccentric shaft (4) via a cup-shaped component (3). The high-pressure fuel pump further comprises a seal (5) which is preferably designed as a bellows and which is fixed to the pump piston (1) at one end and to the hollow cylinder (2) at the other end, thereby forming an annular space (6). According to the invention, a guide gap (7) which is formed between the pump piston (1) and the hollow cylinder (2) is designed as an annular gap seal in order to seal the annular space (6). Furthermore, the guide gap (7) opens into an annular groove (8) which is formed in the hollow cylinder (2) and which is connected to a leakage line (9) in order to recirculate a leakage quantity.

IPC 8 full level

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