

Title (en)

HIGH-PRESSURE FUEL PUMP FOR INJECTION SYSTEM

Title (de)

Kraftstoffhochdruckpumpe für ein Einspritzsystem

Title (fr)

POMPE À CARBURANT HAUTE PRESSION POUR SYSTÈME D'INJECTION

Publication

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Application

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Abstract (en)

[origin: WO2013037542A1] The invention relates to a high-pressure fuel pump (5) for an injection system of a combustion engine, having a pump housing (16), and a pump piston (14) which is guided in a pump cylinder and can be moved up and down by translation, wherein a temperature sensor (22) is provided for determining the temperature of the fuel conveyed by the high-pressure fuel pump (5). According to the invention, a high-pressure fuel pump (5) having increased robustness is provided. This is achieved by arranging the temperature sensor (22) in the area of the high-pressure fuel pump (5). In particular, the pump piston (14) is moved by a plunger (17) which is guided in a receptacle (13) and delimits an upper plunger space (20) in said receptacle, and the temperature sensor (22) is arranged in the area of the upper plunger space (20) or of a connecting line (21) between two upper plunger spaces (20). The temperature detected by the temperature sensor (22) is preferably used for controlling a low pressure pump (2) and thus for regulating the cooling of the high-pressure fuel pump (5).

IPC 8 full level

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