

Title (en)

HIGH-PRESSURE PUMP AND FUEL INJECTION SYSTEM HAVING A HIGH-PRESSURE PUMP

Title (de)

HOCHDRUCKPUMPE UND KRAFTSTOFFEINSPRITZANLAGE MIT EINER HOCHDRUCKPUMPE

Title (fr)

POMPE HAUTE PRESSION ET SYSTÈME D'INJECTION DE CARBURANT POURVU D'UNE POMPE HAUTE PRESSION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2014206768A1] A high-pressure pump (2), which is used in particular as a radial or in-line piston pump for fuel injection systems of air-compressing, auto-ignition internal combustion engines (3), comprises a first pump assembly (8), a second pump assembly (9), and a drive shaft (6), which is used to drive the first pump assembly (8) and the second pump assembly (9). Furthermore, a first inlet valve (10) for a pump working chamber (11) of the first pump assembly (8) and at least one second inlet valve (14) for a pump working chamber (15) of the second pump assembly (9) are provided. The first inlet valve (10) is designed as a controlled inlet valve (10), wherein fuel pumping by the first pump assembly (8) can be at least substantially interrupted by the first inlet valve (10) in a partial-load operating mode. The invention further relates to a fuel injection system (1) having such a high-pressure pump (2).

IPC 8 full level

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