

Title (en)

HIGH-PRESSURE PUMP FOR A FUEL SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

HOCHDRUCKPUMPE FÜR EIN KRAFTSTOFFSYSTEM EINER BRENNKRAFTMASCHINE

Title (fr)

POMPE HAUTE PRESSION POUR UN SYSTEME DE CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: WO02097268A1] The invention relates to a piston pump (20), in particular a high-pressure pump for a fuel system of an internal combustion engine, comprising a housing (72). Said pump is also provided with a piston (94), which delimits a working chamber (100). A drive shaft (78) is retained in the housing (72) by means of at least one shaft bearing and comprises at least one crank section (86). The piston (94) is at least indirectly supported on the crank section (86) of the drive shaft (78) using a piston bearing. A hydrostatic bearing system (62) is provided between parts of at least one of the bearings that can be displaced in relation to one another. Said bearing system is connected to the working chamber (100) via a fluidic connection. To improve the efficiency of the piston pump (20), a device (56; 118), which can temporarily interrupt the fluidic connection, is provided in said fluidic connection between the working chamber (100) and the hydrostatic bearing system (62).

IPC 8 full level

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