

Title (en)

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

Title (de)

HOCHDRUCKPUMPE FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)

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

Publication

**EP 1784571 B1 20081210 (DE)**

Application

**EP 05760887 A 20050705**

Priority

- EP 2005053183 W 20050705
- DE 102004041764 A 20040828

Abstract (en)

[origin: US7571713B2] The high-pressure pump has at least one pump element with a pump piston driven in a reciprocating motion and guided displaceably in a cylinder bore of a pump housing part which piston defines a pump work chamber that can be filled with fuel from a fuel inlet via a suction valve in the intake stroke. The suction valve has a pistonlike valve member which has a cylindrical shaft and a head of larger cross section at least the shaft is guided displaceably in a guide bore of a valve housing. The head of the valve member is also guided displaceably in a bore of the valve housing, via guide portions embodied on the valve member and spaced apart from one another in the circumferential direction; between the guide portions, flowthrough portions of reduced cross section compared to the guide portions provide for fuel flow out of the fuel inlet into the pump work chamber.

IPC 8 full level

**F04B 1/04** (2006.01)

CPC (source: EP US)

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