

Title (en)
IMPROVED HIGH PRESSURE PUMP

Title (de)
HOCHDRUCKPUMPE

Title (fr)
POMPE A HAUTE PRESSION PERFECTIONNEE

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Application
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Abstract (en)
[origin: WO0075513A1] The invention concerns a pump designed to pump a first liquid, called transferred liquid, comprising a main unit (18) for pumping the transferred liquid actuated by an auxiliary unit (20) for pumping a second liquid, called working liquid. The auxiliary unit (20) comprises a piston (54) provided with an axial perforation (74) for circulating working liquid between a tank (58) and a compression chamber (34). The piston (54) further comprises a valve (76) for closing the perforation (74) housed in said perforation between two ends thereof in permanent communication with the tank (58) and the compression chamber (34) respectively. The valve (76) opens when the pressure of the working liquid in the tank (58) exceeds that of the working liquid in the compression chamber (34) and closes in the opposite situation. The invention is applicable to a high pressure pump for supplying fuel to a motor vehicle engine.

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