

Title (en)

HIGH PRESSURE PUMP WITH IMPROVED HUB

Title (de)

HOCHDRUCKPUMPE MIT VERBESSERTER NABE

Title (fr)

POMPE A HAUTE PRESSION A MOYEU PERFECTIONNE

Publication

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Application

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Abstract (en)

[origin: WO0075515A1] The invention concerns a pump for pumping a first liquid, called transferred liquid, and comprising a main unit (18) for pumping the transferred liquid actuated by an auxiliary unit (20) pumping a second liquid, called working liquid. The auxiliary unit (20) comprises a hub (64) mounted rotatable in a housing (16). Said hub (64) comprises a cylindrical guiding surface (SG) rotatable in the housing (16) extended by a shoulder (FE) axially positioning the hub in the housing (16). The guiding surface (SG) and the shoulder (FE) co-operate respectively with matching rotation guiding and axial positioning means (SP, FP) borne by the housing (16). The hub (64) is integral with a skew plate (62) actuating at least a piston (54) elastically returned towards said skew plate. The shoulder (FE) is urged to press against the matching means (FP) for axial positioning by the return force of the piston and the pressure of the working liquid in contact with the skew plate (62). The invention is applicable to a high pressure pump for supplying a motor vehicle engine with fuel.

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