

Title (en)

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

Title (de)

HOCHDRUCKPUMPE, INSBESONDERE FÜR EINE KRAFTSTOFFEINSPRITZEIN RICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)

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

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2005052367A1] The invention relates to a high-pressure pump comprising at least one pump element (32) with a pump piston (34), the latter delimiting a working pump chamber (38) and being indirectly driven by means of a drive shaft (12) so that it performs a lifting displacement against the force of a restoring spring (68). The pump piston (34) is supported at least indirectly on the drive shaft (12) by means of a sleeve-type tappet (60) and the restoring spring (68) engages at least with the pump piston (34). A supporting element, which supports the pump piston (34) in the direction of the drive shaft (12), is inserted in the tappet (60) and is supported in turn at least indirectly on said drive shaft (12). The restoring spring (68) engages with the pump piston (34) and the tappet (60) by means of a spring retainer (66). The spring retainer (66) is elastically deformable in the direction of the pump piston (34) in such a way that any positional deviations of its surfaces (56;64) that are in contact with the pump piston (34) and the tappet (60) are compensated.

IPC 8 full level

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