

Title (en)
HIGH-PRESSURE PUMP FOR INTERNAL COMBUSTION ENGINES

Title (de)
HOCHDRUCKPUMPE FÜR BRENNKRAFTMASCHINEN

Title (fr)
POMPE HAUTE PRESSION POUR MOTEUR À COMBUSTION INTERNE

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Application
EP 13740010 A 20130724

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Abstract (en)
[origin: WO2014019904A1] The invention relates to a suction valve (2) which is used for a high-pressure pump (1), which is used in particular for air-compressing, self-igniting internal combustion engines. The suction valve (2) comprises a valve closing body (15), which interacts with a sealing seat (13), and an armature (30), which can be magnetically actuated and which is connected to the valve closing body (15). A pressure stage is provided, by means of which the valve closing body (15) can be loaded in an opening direction (28). Furthermore, the armature (30) can be magnetically actuated in such a way that the valve closing body (15) can be loaded against the sealing seat (13) in the closing direction (33) by a magnetic closing force by means of the armature (30). Furthermore, a high-pressure pump (1) having such a suction valve (2) is specified. By means of this embodiment, the activation energy for the suction valve (2) can be reduced.

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