

Title (en)
PUMP FOR A HIGH-PRESSURE CLEANING DEVICE

Title (de)
PUMPE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
POMPE POUR APPAREIL DE NETTOYAGE HAUTE PRESSION

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Application
EP 10765398 A 20100924

Priority
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• EP 2010064156 W 20100924

Abstract (en)
[origin: WO2011039114A1] The invention relates to a pump for a high-pressure cleaning device, designed to convey a cleaning liquid. Said pump comprises a pump housing containing at least one pump chamber into which at least one reciprocally movable piston is plunged, and which is connected to a suction line by means of at least one inlet valve, and to a pressure line by means of at least one outlet valve. Said pump also comprises a bypass line leading from the pressure line to the suction line, and containing an overflow valve. The valve body of the overflow valve is connected to an actuator which shifts the valve body to a closed or an open position according to the flow rate of the cleaning liquid in the pressure line, and shifts a switch tappet, coupled to the valve body, to a first or a second switch position. To ensure that the switch tappet reliably covers a specific distance, thereby activating a switching element, when the pump goes into circulation mode, while at the same time ensuring that the flow loss of said cleaning liquid is kept to a minimum when the pump remains in circulation mode for a long time, according to the invention, during the transition from a closed position to an open position the valve body releases a passage upstream of the valve seat through which the cleaning liquid can flow. The flow cross-sectional area of said passage becomes wider when the valve body is a predetermined distance from the valve seat.

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Cited by
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