

Title (en)

METHOD AND DEVICE FOR STARTING AN HYDRAULIC MEMBRANE PUMP AGAINST A LOAD

Publication

EP 0283026 B1 19930303 (DE)

Application

EP 88104287 A 19880317

Priority

DE 3708868 A 19870318

Abstract (en)

[origin: US4865528A] In a diaphragm pump, which is provided with at least one diaphragm (1), which separates a delivery chamber (4) from a pressure chamber (5) filled with an hydraulic fluid and is clamped at its edge between the pump body (2) and a pump cover (3), and with an hydraulic diaphragm drive in the form of an oscillating displacement piston (6), which is displaceable in the pump body (2) between the pressure chamber (5) and a storage chamber (7) for the hydraulic fluid, a method as well as an arrangement for starting under load is provided. For this purpose on the pump drive side between the pressure chamber (5) and the storage chamber (7) a connection channel (20) is provided. This connection channel (20) during start-up of the pump leads the hydraulic fluid displaced by the displacement piston (6) in the pressure chamber (5) back into the storage chamber (7) and in the course of the further strokes of the displacement piston (6) is closable by a controlled closing device (A), so that the pressure in the pressure chamber (5) rises up to the level of the discharge pressure.

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F04B 43/06

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