

Title (en)

PISTON PUMP, ESPECIALLY A RADIAL PISTON PUMP

Title (de)

KOLBENPUMPE, INSBESONDERE RADIALKOLBENPUMPE

Title (fr)

POMPE A PISTONS, NOTAMMENT POMPE A PISTONS RADIAUX

Publication

**EP 0509077 B1 19960515 (DE)**

Application

**EP 91918718 A 19911105**

Priority

- DE 4135904 A 19911031
- DE 4035180 A 19901106
- EP 9102085 W 19911105

Abstract (en)

[origin: WO9208051A1] The invention relates to a piston pump with suction regulation, especially for motor vehicles, and preferably with a control stub for internal admission. It is the purpose of the invention to provide such a pump with a constant supply flow rate over a wide revolution speed range and the lowest possible losses and low noise level. To this end the present invention proposes several solutions. In a first, the control slot (13) on the pressure side is divided into several grooves (27, 28), which are at least partly connected to the pressure link (20) via non-return valves (32). In another, the shape of the control slot on the pressure side is adapted to the optimum operating mode by making its inlet end relatively narrow to reduce the noise level (noise reduction at high revolution speeds) and keeping an adequate width at the outlet end for the power required. In a third, the arrangement for the slot (12) on the intake side is similar to that of the second solution and its length also affects the degree of filling of the piston drilling.

IPC 1-7

**F04B 1/04**; **F04B 1/10**

IPC 8 full level

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