

Title (en)
VANE CELL PUMP

Publication
EP 0235150 B1 19890308 (DE)

Application
EP 86900102 A 19851203

Priority
EP 8500010 W 19850115

Abstract (en)
[origin: WO8604393A1] A vane cell pump having a pump body (1) comprises a rotor (6) provided with radially moving vanes (7), connected to a main shaft (5) and arranged between the front wall (10) of a bearing plate (9) and a front wall (16) of a counter plate or inside a portion of the body (1), as well as a curved ring (8) surrounding the rotor. Discharge and suction chambers are delimited by both front walls (10, 16), the rotor (6) and the curved ring (8). In the region of the discharge chambers are provided in the bearing plate (9) passage openings (11, 12) communicating with an opening (14) or evacuating the pressure medium. In the area of the discharge chambers, in the wall (16) of the counter plate or in the portion of the body (1) where the primary shaft is mounted, there are provided pressure equalization openings. The latter are designed as dumping rooms (17, 18) which project from the wall (16) up into the body (1) situated behind.

IPC 1-7
F04C 15/00

IPC 8 full level
F04C 14/00 (2006.01); **F04C 15/00** (2006.01); **F04C 15/06** (2006.01); **F04C 29/00** (2006.01); **F04C 29/06** (2006.01)

CPC (source: EP KR US)
F04C 15/00 (2013.01 - KR); **F04C 15/0049** (2013.01 - EP US)

Citation (examination)
Oelhydraulic u. Pneumatic 20 (1976), Nr.8, S.515-521

Cited by
DE4120757C2; DE19635801A1; DE19635801B4

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
DE 3542659 A1 19860717; DE 3568611 D1 19890413; EP 0235150 A1 19870909; EP 0235150 B1 19890308; JP 2550042 B2 19961030; JP S62501788 A 19870716; KR 870700121 A 19870314; US 4752195 A 19880621; WO 8604393 A1 19860731

DOCDB simple family (application)
DE 3542659 A 19851203; DE 3568611 T 19851203; EP 8500663 W 19851203; EP 86900102 A 19851203; JP 50014985 A 19851203; KR 860700626 A 19860909; US 91260186 A 19860807