

Title (en)
Vane pump

Title (de)
Sperrflügelpumpe

Title (fr)
Pompe à palettes

Publication
EP 0810372 A3 19990707 (DE)

Application
EP 97108653 A 19970529

Priority
DE 19623243 A 19960530

Abstract (en)
[origin: EP0810372A2] The pump (10) has a rotor (16) which is accommodated in a housing (12), whose walls have at least one groove (28) for a barrier vane (30). The barrier vane is pressed by a spring (32) against the perimeter of the rotor, which has control surfaces (22) which are separated from one another by dividing regions (24). The space in front of the vane in the direction of rotation is connected to a pressurised outlet (42), while the space after the vane is connected to a suction inlet (44). The suction inlet has a throttle point (61) and the pressurised outlet is associated with closing or opening equipment which is dependent on the pressure, and which may be a one-way valve.

IPC 1-7
F04C 2/356

IPC 8 full level
F04C 2/356 (2006.01); **F04C 14/24** (2006.01)

CPC (source: EP)
F04C 2/356 (2013.01); **F04C 14/24** (2013.01); **F04C 2270/205** (2013.01)

Citation (search report)

- [Y] US 2492687 A 19491227 - DALL ALBERT H
- [Y] DE 3506629 A1 19851003 - BARMAG BARMER MASCHF [DE]
- [Y] US 3216362 A 19651109 - HEWKO LUBOMYR O
- [Y] DE 2513073 A1 19761007 - MURMANN WALTER
- [A] DE 3005656 A1 19810820 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]

Cited by
WO2010075834A3

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0810372 A2 19971203; EP 0810372 A3 19990707; DE 19623243 A1 19980108; JP H1054375 A 19980224

DOCDB simple family (application)
EP 97108653 A 19970529; DE 19623243 A 19960530; JP 14271897 A 19970530