

Title (en)
Vane pump

Title (de)
Flügelzellenpumpe

Title (fr)
Pompe à palettes

Publication
EP 1318304 A3 20030910 (DE)

Application
EP 02026051 A 20021122

Priority
DE 10160286 A 20011207

Abstract (en)
[origin: EP1318304A2] The pump has an intake side, a housing with drive shaft and rotor, a rear blade oil channel, and working chambers with suction zones with intake chambers, and pressure zones with outlet chambers. A pressure medium flow coming from a first outlet chamber (13) is controlled by a shut-off valve (18), so that with low pump RPM, the flow is fed into a pressure collection chamber (15), and with higher pump RPM, is short-circuited resp. fed directly to the pump intake side (1), e.g. into the suction intake (2) via an injector (25). A piston (20) of the shut-off valve is controlled dependent upon pump RPM.

IPC 1-7
F04C 2/344

IPC 8 full level
F01C 21/08 (2006.01); **F04C 2/344** (2006.01); **F04C 14/02** (2006.01)

CPC (source: EP)
F01C 21/0863 (2013.01); **F04C 2/3446** (2013.01); **F04C 14/02** (2013.01)

Citation (search report)

- [XY] DE 4136151 A1 19930506
- [XY] EP 0522505 A2 19930113 - TOYODA MACHINE WORKS LTD [JP]
- [X] DE 4400684 A1 19940714 - UNISIA JECS CORP [JP]
- [Y] GB 559108 A 19440204 - CYRIL ALPHONSO PUGH, et al
- [XY] PATENT ABSTRACTS OF JAPAN vol. 010, no. 307 (M - 527) 18 October 1986 (1986-10-18)

Cited by
EP1378665A1; EP2476905A3

Designated contracting state (EPC)
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DOCDB simple family (publication)
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