

Title (en)
Positive displacement pump with a vane

Title (de)
Verdrängerpumpe mit Flügel

Title (fr)
Pompe volumétrique à palette

Publication
EP 1553299 A3 20060111 (DE)

Application
EP 04023261 A 20040930

Priority
DE 102004001840 A 20040107

Abstract (en)
[origin: DE102004001840B3] Positive-displacement pump comprises a blade (22) for the mutual separation of two chambers in a housing chamber. The blade is driven by a drive shaft mounted in the pump housing. The blade has two partly overlapping blade parts (32, 34) that are aligned with each other and can be independently moved apart. The blade parts engage with each other on facing side surfaces (36) by a tongue and groove connection. The grooves (38) and the tongues (40) run orthogonally to the drive shaft. Preferred Features: The tongues and grooves form a labyrinth seal.

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

CPC (source: EP)
F01C 21/0809 (2013.01); **F01C 21/0881** (2013.01); **F04C 2/3442** (2013.01); **F04C 2/3445** (2013.01)

Citation (search report)

- [AD] DE 3537158 A1 19860605 - BARMAG BARMER MASCHF [DE]
- [AD] EP 1134417 A2 20010919 - JOMA HYDROMECHANIC GMBH [DE]
- [A] US 5242285 A 19930907 - WESTERMANN JR PHILLIP J [US]

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