

Title (en)
Vane pump

Title (de)
Flügelzellenpumpe

Title (fr)
Pompe à palettes

Publication
EP 1327778 A3 20030723 (DE)

Application
EP 03008524 A 20010227

Priority
• DE 10012406 A 20000315
• DE 20018958 U 20001107
• EP 01104428 A 20010227

Abstract (en)
[origin: EP1134417A2] The rotary displacement pump has a blade (18) to divide the interior (12) of the pump housing (10) into two chambers, rotated by a drive shaft (14). The blade (18) has sealing bars (20,22) and a spring unit (48) which keeps the sealing bars (20,22) pressed against the inner wall surface of the housing interior (12) in a seal contact. The spring (48) is preferably a leaf spring.

IPC 1-7
F04C 2/344; F01C 21/08; F04C 15/00

IPC 8 full level
F01C 21/08 (2006.01); **F04C 2/344** (2006.01); **F04C 15/00** (2006.01); **F04C 18/344** (2006.01)

CPC (source: EP US)
F01C 21/08 (2013.01 - EP US); **F01C 21/0809** (2013.01 - EP US); **F01C 21/0881** (2013.01 - EP US); **F04C 2/3441** (2013.01 - EP US); **F04C 2/3442** (2013.01 - EP US); **F04C 18/3442** (2013.01 - EP US)

Citation (search report)
• [E] WO 03036094 A2 20030501 - LUK AUTOMOBILTECHNIK & CO KG [DE], et al
• [E] WO 0225113 A1 20020328 - BOSCH GMBH ROBERT [DE], et al
• [XY] DE 19844904 C1 20000217 - LUK AUTOMOBILTECH GMBH & CO KG [DE]
• [X] CH 466490 A 19681215 - RYFFEL HANS [CH]
• [X] US 1649256 A 19271115 - ROESSLER AMANDUS C
• [Y] DE 3418928 A1 19860220 - KUELLER GUENTER
• [A] US 2103180 A 19371221 - LEROY RICE EDWIN
• [A] DE 385561 C 19231126 - APP BAUANSTALT AXMANN & CO G M, et al
• [A] DE 3102214 A1 19811126 - BELTRAME LEONARDO

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1134417 A2 20010919; **EP 1134417 A3 20020911**; **EP 1134417 B1 20030924**; AT E250722 T1 20031015; CN 1162621 C 20040818; CN 1317644 A 20011017; DE 50100666 D1 20031030; EP 1327778 A2 20030716; EP 1327778 A3 20030723; EP 1424495 A2 20040602; EP 1424495 A3 20040623; US 2002136656 A1 20020926; US 6604924 B2 20030812

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EP 01104428 A 20010227; AT 01104428 T 20010227; CN 01109497 A 20010314; DE 50100666 T 20010227; EP 03008524 A 20010227; EP 04004782 A 20010227; US 80830401 A 20010314