

Title (en)
Rotary vane pump.

Title (de)
Drehflügelpumpe.

Title (fr)
Pompe à palettes rotatives.

Publication
EP 0095194 A1 19831130 (EN)

Application
EP 83105191 A 19830525

Priority
JP 8802282 A 19820526

Abstract (en)
A variable-volume type rotary vane pump includes a pump housing (1), two covers (2) fixed to the pump housing (1) so as to form a space therein, a cam ring (5) arranged in the space of the pump housing (1), a rotor (7) placed eccentrically in the cam ring (5), a plurality of vanes (9) attached to the rotor (7) in such a way that the vanes (9) can move in radius directions, the vanes (9) slidably contacting an inner surface of the cam ring (5), a plurality of pump chambers (11) formed by the cam ring (5), the rotor (7), the two covers (2) and the adjacent vanes (9) in such a way that, when the rotor (7) rotates relative to the cam ring (5), the pump chambers (11) change in volume so as to function as a pump. A piston (12) is arranged in the pump housing (1) so as to move the cam ring (5) thereby to adjust the eccentricity between the cam ring (5) and the rotor (7).

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F04C 15/04

IPC 8 full level
F04C 14/22 (2006.01); **F04C 2/344** (2006.01); **F04C 18/344** (2006.01)

CPC (source: EP)
F04C 14/226 (2013.01)

Citation (search report)
• US 3153384 A 19641020 - CASTLE JR JAMES B, et al
• US 3687579 A 19720829 - MARTIN KENNETH C, et al
• US 3415058 A 19681210 - UNDERWOOD HERBERT N, et al
• US 2142275 A 19390103 - LANE CLIFFORD J
• GB 2026094 A 19800130 - GEN MOTORS CORP

Cited by
GB2167811A; US5178525A; DE4307003A1; US5366354A; WO2007039012A1; US7607907B2; US7108493B2; US8210836B2; US8740593B2; US9435338B2; US7491043B2

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