

Title (en)
SINGLE-VANE ROTARY PUMP OR MOTOR

Title (de)
DREHKOLBENPUMPE ODER -MOTOR MIT EINEM EINZIGEN FLÜGEL

Title (fr)
MOTEUR ROTATIF OU POMPE ROTATIVE A UNE SEULE AILETTE

Publication
EP 1633980 B1 20061220 (EN)

Application
EP 04734594 A 20040524

Priority
• IL 2004000448 W 20040524
• GB 0314231 A 20030618
• IL 16009604 A 20040128

Abstract (en)
[origin: US2008063552A1] A rotary vane pump or motor comprising a housing (16) with cylindrical inner peripheral wall defining a cavity, and a rotor (20) with cylindrical peripheral surface and a socket (41) internal to said peripheral surface, eccentrically disposed in the cavity. The rotor (20) is adapted to scroll the inner peripheral wall in close proximity thereto. The inner peripheral wall and the rotor surface define a working chamber between them. The housing (16) has a vane (22) with an end received within the socket (41) so as to enable the vane to slide in the socket maintaining predetermined degree of fluid tightness therebetween, and to enable the rotor (20) to orbit the cavity. The housing (16) has an inlet port (24) adjacent one side of the vane and an outlet port (26) adjacent the other side of the vane, both ports being open to the inner peripheral wall.

IPC 8 full level
F04C 2/332 (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)
F04C 2/332 (2013.01 - EP US); **F04C 15/0015** (2013.01 - EP US); **F04C 15/0065** (2013.01 - EP US)

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WO 2004111455 A1 20041223; AT E348957 T1 20070115; AU 2004201396 B1 20040805; AU 2004201396 C1 20050414; CA 2527268 A1 20041223; DE 602004003814 D1 20070201; DE 602004003814 T2 20071011; EP 1633980 A1 20060315; EP 1633980 B1 20061220; ES 2279371 T3 20070816; JP 2006527818 A 20061207; US 2006228245 A1 20061012; US 2008063552 A1 20080313

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