

Title (en)
FLUID VANE MOTOR/PUMP

Title (de)
FLÜSSIGKEITSDREHFLÜGELMOTOR/-PUMPE

Title (fr)
POMPE/MOTEUR HYDRAULIQUE A PALETTES

Publication
EP 0901563 A4 20000830 (EN)

Application
EP 96914010 A 19960528

Priority
• AU 9600326 W 19960528
• AU PN327595 A 19950530

Abstract (en)
[origin: WO9638654A1] A motor/pump (10) comprises a housing (12) defining a cavity (18) between sealed ends (14 and 16). Rotor (24) having a substantially hollow body (26) is supported by the housing (12) for rotation within the cavity (18) about a rotation axis (28) which is parallel to but offset from longitudinal axis (30) of the cavity (18). A plurality of vanes (32) are retained by the rotor (34) for movement radially of the rotation axis (28). The vanes (32), rotor (24) and housing (12) are juxtaposed so that a substantially sealed chamber is formed between adjacent vanes (32), inner surface (34) of housing (12) and outer circumferential surface (36) of the rotor body (26). First and second ports (20, 22) are formed in the housing (12) and located so as to be disposed in different chambers. A split sleeve (122) is disposed within the rotor (24) for biasing the vanes (32) radially outwardly from the rotation axis (28) wherein axially opposite ends of said vanes (32) are disposed inboard of opposite first and second ends of said rotor body so that in use only a length of said axially opposite ends of each vane which extend beyond an outer peripheral surface (36) of said rotor body can slidingly contact respective adjacent ends of said housing (46, 56).

IPC 1-7
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CPC (source: EP)
F01C 1/3442 (2013.01); **F01C 21/0836** (2013.01)

Citation (search report)
• [XY] GB 703761 A 19540210 - LOUIS WIDDOWS
• [Y] GB 677569 A 19520820 - JOHN MEREDITH RUBURY, et al
• [YA] DE 186489 C
• [X] FR 923027 A 19470625
• See references of WO 9638654A1

Cited by
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WO 9638654 A1 19961205; AU PN327595 A0 19950622; EP 0901563 A1 19990317; EP 0901563 A4 20000830; EP 0901563 B1 20030507; TW 368562 B 19990901

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