

Title (en)

VARIABLE DISPLACEMENT PUMP HAVING A ROTATING CAM RING

Title (de)

VERSTELLPUMPE MIT ROTIERENDEM NOCKENRING

Title (fr)

POMPE A CYLINDRE VARIABLE A CAGE OVALE ROTATIVE

Publication

EP 1384005 A4 20041013 (EN)

Application

EP 02728572 A 20020327

Priority

- US 0209298 W 20020327
- US 28163401 P 20010405

Abstract (en)

[origin: WO02081921A1] Vane pump (10) mechanical losses are reduced by removing vane friction losses and replacing them with lower magnitude journal bearing fluid film viscous drag losses. A freely rotating cam ring (70) is supported by a journal bearing (80). A relatively low sliding velocity is imposed between the cam ring and the vanes (26). This permits the use of less expensive and less brittle materials in the pump by allowing the pump to operate at much higher speeds without concern for exceeding vane tip velocity limits.

IPC 1-7

F04C 2/344; F04C 15/04

IPC 8 full level

F01C 21/08 (2006.01); F04C 2/344 (2006.01); F04C 14/22 (2006.01); F04C 15/00 (2006.01)

CPC (source: EP KR)

F01C 21/0809 (2013.01 - EP); F04C 2/344 (2013.01 - KR); F04C 2/3442 (2013.01 - EP); F04C 14/226 (2013.01 - EP); F04C 2220/24 (2013.01 - EP); F05C 2203/0826 (2013.01 - EP)

Citation (search report)

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