

Title (en)
VARIABLE DISPLACEMENT VANE PUMP

Title (de)
FLÜGELZELLENPUMPE MIT VERSTELLBARER DURCHFLUSSMENGE

Title (fr)
POMPE A AILETTES A CYLINDREE VARIABLE

Publication
EP 1163449 B1 20090909 (EN)

Application
EP 00986603 A 20001220

Priority
• US 0034592 W 20001220
• US 17138299 P 19991222

Abstract (en)
[origin: WO0146591A1] A variable displacement vane pump is disclosed which includes a pump housing having a cylindrical interior chamber, a cylindrical rotor member mounted for rotational movement within the interior chamber of the pump housing, a cam member mounted for pivotal movement within the interior chamber of the pump housing about a fulcrum aligned with the vertical centerline of the interior chamber, the cam member defining a cam body having a circular bore extending therethrough for receiving the rotor member, the cam body having lateral sealing lands formed thereon, the sealing lands having arcuate sealing surfaces defining segments of a cam arc through which the cam member pivots, and static cam seals supported within the interior chamber of the pump housing and oriented on each end of a chord of the cam arc, each cam seal biased into a continuous contact position with an adjacent sealing surface of the cam member.

IPC 8 full level
F04C 2/344 (2006.01); **F04C 15/06** (2006.01); **F04C 14/22** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP)
F04C 14/22 (2013.01)

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)
WO 0146591 A1 20010628; AT E442526 T1 20090915; DE 60042920 D1 20091022; EP 1163449 A1 20011219; EP 1163449 B1 20090909; JP 2003518227 A 20030603

DOCDB simple family (application)
US 0034592 W 20001220; AT 00986603 T 20001220; DE 60042920 T 20001220; EP 00986603 A 20001220; JP 2001547465 A 20001220