

Title (en)
VANE PUMP

Title (de)
FLÜGELZELLENPUMPE

Title (fr)
POMPE A PALETTES COULISSANTES

Publication
EP 1828611 A1 20070905 (DE)

Application
EP 05826789 A 20051121

Priority
• EP 2005056088 W 20051121
• DE 102004060551 A 20041216

Abstract (en)
[origin: US2009238707A1] A vane pump having a pump containing a rotor driven via a drive shaft with the rotor having a number of generally radially extending grooves distributed over its circumference each of which grooves support a vane shaped delivery element in sliding fashion. The rotor is encompassed by an eccentric circumferential wall, against which the radially outer ends of the vanes rest. Housing end walls are situated adjacent to the rotor in the direction of its rotation axis. When the rotor turns, the vanes deliver medium from a suction region to a pressure region offset in the rotation direction. An annular groove is provided in at least one of the housing end walls which annular groove encompasses the rotation axis of the rotor, is situated opposite the inner regions delimited in the grooves of the rotor by the vanes, and is connected to the pressure region via a connecting groove in the housing end wall. The annular groove extends in eccentric fashion in relation to the rotation axis of the rotor.

IPC 8 full level
F04C 2/344 (2006.01)

CPC (source: EP US)
F01C 21/0863 (2013.01 - EP US); **F04C 2/3442** (2013.01 - EP US); **F04C 2270/701** (2013.01 - EP US)

Citation (search report)
See references of WO 2006063917A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2009238707 A1 20090924; AT E408064 T1 20080915; CN 101080573 A 20071128; DE 102004060551 A1 20060622; DE 502005005361 D1 20081023; EP 1828611 A1 20070905; EP 1828611 B1 20080910; JP 2008524486 A 20080710; WO 2006063917 A1 20060622

DOCDB simple family (application)
US 72134905 A 20051121; AT 05826789 T 20051121; CN 200580043239 A 20051121; DE 102004060551 A 20041216; DE 502005005361 T 20051121; EP 05826789 A 20051121; EP 2005056088 W 20051121; JP 2007546006 A 20051121