

Title (en)  
Vane pump

Title (de)  
Flügelzellenpumpe

Title (fr)  
Pompe à palettes

Publication  
**EP 2075469 A2 20090701 (EN)**

Application  
**EP 08022401 A 20081223**

Priority  
• JP 2007332179 A 20071225  
• JP 2008092263 A 20080331

Abstract (en)  
A vane pump includes slits (7) formed in a base portion of a rotary unit (4) rotating in a casing (2) and extend radially from a rotation axis of a rotary unit to be opened outwardly in a radial direction, a vane (8) received in each of the slits (7) to be protruded from or retreated into the slit, an annular chamber (6) formed around the base portion in the casing (2) and pump rooms (9) formed by defining the annular chamber (6) by using the vanes (8). The vane pump further includes a fluid force generating portion (28) provided on at least one of the rotary unit (4) and the casing (2) to generate fluid force to the upper side in an axial direction of the rotation axis by rotation of the rotary unit (4).

IPC 8 full level  
**F04C 2/344** (2006.01)

CPC (source: EP KR US)  
**F04C 2/344** (2013.01 - KR); **F04C 2/3442** (2013.01 - EP US); **F04C 11/00** (2013.01 - EP US); **F04C 15/0026** (2013.01 - EP US); **F04C 18/344** (2013.01 - KR)

Citation (applicant)  
JP S6477783 A 19890323 - HITACHI LTD

Cited by  
CN103038452A; EP2146096A3; EP3957822A1; EP3957823A1; WO2011131598A3; WO2022038137A1; WO2022038136A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
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