

Title (en)  
VANE PUMP

Title (de)  
FLÜGELZELLENPUMPE

Title (fr)  
POMPE VOLUMÉTRIQUE ROTATIVE À PALETTES

Publication  
**EP 2486280 A2 20120815 (DE)**

Application  
**EP 10752530 A 20100909**

Priority  
• DE 102009049532 A 20091007  
• EP 2010005540 W 20100909

Abstract (en)  
[origin: WO2011042105A2] The invention relates to a vane pump, comprising an upper vane pump, which is associated with a first load, and a lower vane pump, which has a lower vane pressure area and a lower vane suction area, which is connected to the upper vane pump. The invention is characterized in that the lower vane pressure area is separated from the lower vane suction area and is associated with a second load.

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

CPC (source: EP KR US)  
**F01C 21/0863** (2013.01 - EP KR US); **F04C 2/344** (2013.01 - EP KR US); **F04C 11/001** (2013.01 - EP KR US); **F04C 15/06** (2013.01 - EP KR US); **F04C 18/344** (2013.01 - KR); **F04C 2240/30** (2013.01 - EP KR US); **F04C 2240/80** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2011042105A2

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

DOCDB simple family (publication)  
**WO 2011042105 A2 20110414; WO 2011042105 A3 20130321**; CN 103003572 A 20130327; CN 103003572 B 20160629;  
DE 112010003973 A5 20130110; EP 2486280 A2 20120815; EP 2486280 B1 20140521; EP 2486280 B8 20140709; ES 2484373 T3 20140811;  
JP 2013510975 A 20130328; JP 5671046 B2 20150218; KR 20120089664 A 20120813; US 2012275945 A1 20121101;  
US 9217431 B2 20151222

DOCDB simple family (application)  
**EP 2010005540 W 20100909**; CN 201080045221 A 20100909; DE 112010003973 T 20100909; EP 10752530 A 20100909;  
ES 10752530 T 20100909; JP 2012532473 A 20100909; KR 20127008529 A 20100909; US 201013500621 A 20100909