

Title (en)  
VANE PUMP

Title (de)  
FLÜGELZELLENPUMPE

Title (fr)  
POMPE À PALETTES

Publication  
**EP 3309397 A1 20180418 (EN)**

Application  
**EP 16807696 A 20160428**

Priority  
• KR 20150082706 A 20150611  
• KR 2016004484 W 20160428

Abstract (en)  
The present invention relates to a vane pump, which is capable of smoothly suctioning a working fluid suctioned into a rotary chamber while minimizing damage to a vane or occurrence of noise, exhibits an excellent performance in terms of flow rate and volumetric efficiency, and is capable of effectively reducing inner cavitation. To this end, the vane pump of the present invention is configured such that the working fluid introduced into one side of the rotary chamber formed between an outer cam ring and a rotor is discharged to the other side of the rotary chamber, wherein a through slit extending in the circumferential direction of the outer cam ring is formed in the corresponding portion of the outer cam ring corresponding to the side to which the working fluid is introduced.

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

CPC (source: CN EP US)  
**F01C 21/106** (2013.01 - EP US); **F04C 2/344** (2013.01 - EP US); **F04C 2/3441** (2013.01 - CN); **F04C 14/22** (2013.01 - EP US); **F04C 14/223** (2013.01 - EP US); **F04C 14/226** (2013.01 - EP US); **F04C 15/0042** (2013.01 - US); **F04C 15/06** (2013.01 - CN EP US); **F04C 2240/10** (2013.01 - US); **F04C 2240/802** (2013.01 - EP US)

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 RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3309397 A1 20180418**; **EP 3309397 A4 20190123**; CN 107771249 A 20180306; JP 2018519460 A 20180719; KR 101740610 B1 20170608; KR 20160147112 A 20161222; US 2018223841 A1 20180809; WO 2016200055 A1 20161215

DOCDB simple family (application)  
**EP 16807696 A 20160428**; CN 201680033292 A 20160428; JP 2017561895 A 20160428; KR 20150082706 A 20150611; KR 2016004484 W 20160428; US 201615579943 A 20160428