

Title (en)  
LUBRICANT-SEALED VACUUM PUMP

Title (de)  
ÖLGEDICHTETE VAKUUMPUMPE

Title (fr)  
POMPE À VIDE

Publication  
**EP 3376033 B1 20201125 (EN)**

Application  
**EP 17160775 A 20170314**

Priority  
EP 17160775 A 20170314

Abstract (en)  
[origin: EP3376033A1] A lubricant-sealed vacuum pump, such as a rotary vane pump, comprises a rotor element (16) arranged in a suction chamber (10). The rotor element (16) is carried by a rotor shaft (26). The shaft (26) is surrounded by a main seal (32) arranged in the pump housing (12). In addition to the main seal (32), an additional seal (44) is arranged on an inner side (42) of the main seal (32). The additional seal (44) comprises a sealing lip (50) arranged on an outer side (36) of a shell (30).

IPC 8 full level  
**F04C 25/02** (2006.01); **F04C 27/02** (2006.01)

CPC (source: EP KR)  
**F04C 18/344** (2013.01 - KR); **F04C 25/02** (2013.01 - EP KR); **F04C 27/02** (2013.01 - EP KR); **F04C 29/02** (2013.01 - KR); **F04C 2240/809** (2013.01 - KR)

Citation (examination)

- WO 2016198793 A1 20161215 - POCLAIN HYDRAULICS IND [FR]
- EP 2554844 A1 20130206 - MITSUBISHI HEAVY IND LTD [JP]
- WO 2005001290 A1 20050106 - LUK FAHRZEUG HYDRAULIK [DE], et al
- US 2008289926 A1 20081127 - OLENZEK RICHARD F [US], et al
- EP 0173579 A1 19860305 - SANDEN CORP [JP]

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

DOCDB simple family (publication)  
**EP 3376033 A1 20180919; EP 3376033 B1 20201125**; CN 110337544 A 20191015; CN 110337544 B 20211008; JP 2020510787 A 20200409; JP 7231554 B2 20230301; KR 102519962 B1 20230407; KR 20190120246 A 20191023; TW 201833443 A 20180916; TW I750335 B 20211221; WO 2018166875 A1 20180920

DOCDB simple family (application)  
**EP 17160775 A 20170314**; CN 201880014004 A 20180307; EP 2018055656 W 20180307; JP 2019549422 A 20180307; KR 20197026666 A 20180307; TW 107106611 A 20180227