

Title (en)  
VACUUM PUMP WITH SHAFT SEAL

Title (de)  
VAKUUMPUMPE MIT WELLENDICHTUNG

Title (fr)  
POMPE À VIDE AVEC JOINT D'ARBRE

Publication  
**EP 2431613 B1 20191218 (DE)**

Application  
**EP 11007002 A 20110827**

Priority  
DE 102010045881 A 20100917

Abstract (en)  
[origin: EP2431613A2] The vacuum pump (1) comprises two chambers, where one chamber is arranged between the room walls (8), where a shaft (10) arranged in an opening of the wall. The shaft supporting bearings (12,22) is arranged in the chamber, where an intercepting groove is arranged for the shaft. The chamber has a radially arranged boundary surface.

IPC 8 full level  
**F04C 27/00** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP)  
**F04C 27/009** (2013.01); **F04C 29/021** (2013.01); **F04C 29/028** (2013.01); **F01C 17/02** (2013.01); **F04C 29/0064** (2013.01); **F04C 2220/10** (2013.01); **F04C 2240/30** (2013.01); **F04C 2240/809** (2013.01)

Cited by  
CN108431422A; JP2016156373A; EP3061973A1; EP3396171A1; WO2017076803A1; US10851783B2

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 2431613 A2 20120321; EP 2431613 A3 20160406; EP 2431613 B1 20191218**; DE 102010045881 A1 20120322

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