

Title (en)  
Vacuum pump

Title (de)  
Vakuumpumpe

Title (fr)  
Pompe à vide

Publication  
**EP 2826999 B1 20210303 (DE)**

Application  
**EP 14173399 A 20140623**

Priority  
DE 102013213815 A 20130715

Abstract (en)  
[origin: US2015016958A1] A vacuum pump has a working space, a bearing space, a dividing wall arranged between the working space and the bearing space and at least one rotor shaft which extends through the dividing wall and which forms a gap with the dividing wall and having a blocking device for blocking between the working space and the bearing space. The blocking device is formed by a Siegbahn pump stage which is configured for providing a pump action passing through the gap between the working space and the bearing space.

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/10** (2006.01); **F16J 15/44** (2006.01)

CPC (source: CN EP US)  
**F04D 19/04** (2013.01 - CN EP US); **F04D 19/042** (2013.01 - CN EP US); **F04D 29/056** (2013.01 - US); **F04D 29/102** (2013.01 - CN EP US); **F04D 29/646** (2013.01 - US); **Y10T 29/49245** (2015.01 - EP US)

Citation (examination)

- EP 0773367 A1 19970514 - VARIAN SPA [IT]
- JP 2009047178 A 20090305 - EBARA CORP
- JP 2005069066 A 20050317 - EBARA CORP
- US 2006245960 A1 20061102 - SCHOOLING JENNIFER M [GB], et al

Cited by  
EP3628883A3; WO2022112745A1

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)  
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DOCDB simple family (application)  
**EP 14173399 A 20140623**; CN 201410334674 A 20140714; DE 102013213815 A 20130715; JP 2014141915 A 20140710; US 201414328766 A 20140711