

Title (en)  
VACUUM PUMP AND MEMBER USED FOR VACUUM PUMP

Title (de)  
VAKUUMPUMPE UND ELEMENT FÜR DIE VAKUUMPUMPE

Title (fr)  
POMPE À VIDE ET ORGANE UTILISÉ POUR POMPE À VIDE

Publication  
**EP 2472120 A1 20120704 (EN)**

Application  
**EP 10811581 A 20100531**

Priority  
• JP 2009198274 A 20090828  
• JP 2010059186 W 20100531

Abstract (en)  
To provide a vacuum pump in which possibilities of decreased exhaust performance and gas leakage at the time of breakage of a rotor are lessened, in the case where a rotating part closes the inside opening portion of an exhaust outlet portion to decrease the height dimension of the vacuum pump, and further a connector lead wire is installed easily. An inside opening edge portion of a gas discharge passage for combining the downstream space of the rotor with the exhaust outlet portion is caused to take a shape such that the opening edge portion has no blind portion when a gas exhaust passage forming member is viewed from at least either of an upper side or an oblique upper side, or from at least either of a lower side or an oblique lower side. Furthermore, the inner corner portion of this opening edge portion is formed into a rounded shape to reduce stress concentration. Also, a base is provided with a groove for combining a lead wire installing hole with a hole in the central part, and further the corners of these parts are formed into a rounded shape.

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP KR US)  
**F04D 19/042** (2013.01 - EP KR US); **F04D 25/0693** (2013.01 - EP KR US); **F04D 27/0292** (2013.01 - EP KR US); **F04D 29/428** (2013.01 - KR); **F04D 29/522** (2013.01 - EP US); **F04D 29/601** (2013.01 - EP KR 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 SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2472120 A1 20120704**; **EP 2472120 A4 20170802**; **EP 2472120 B1 20221130**; CN 102483069 A 20120530; CN 102483069 B 20160907; JP 2014080981 A 20140508; JP 5689546 B2 20150325; JP 5785494 B2 20150930; JP WO2011024528 A1 20130124; KR 101784016 B1 20171010; KR 20120061770 A 20120613; US 2012141254 A1 20120607; WO 2011024528 A1 20110303

DOCDB simple family (application)  
**EP 10811581 A 20100531**; CN 201080036516 A 20100531; JP 2010059186 W 20100531; JP 2011528686 A 20100531; JP 2014024033 A 20140212; KR 20117027310 A 20100531; US 201013381239 A 20100531