

Title (en)  
Vacuum pump

Title (de)  
Vakuumpumpe

Title (fr)  
Pompe à vide

Publication  
**EP 2039941 B1 20171108 (DE)**

Application  
**EP 08016073 A 20080912**

Priority  
DE 102007044945 A 20070920

Abstract (en)  
[origin: EP2039941A2] The pump (100) has a gas inlet and a fast-rotating rotor (124), where the rotor is connected with a flange (118) of a multi-chamber vacuum system (101). The flange is provided with suction openings that are separated by a separating wall (106). A gas path separation structure is arranged in the gas inlet, where the structure is designed such that structure causes sealing of vacuum chambers (102, 103) of the multi-chamber vacuum system together with the separating wall. A central disk (129) forms the gas path separation structure together with bars (127, 128).

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/08** (2006.01); **F04D 29/42** (2006.01); **F04D 29/70** (2006.01)

CPC (source: EP US)  
**F04D 19/042** (2013.01 - EP US); **F04D 29/083** (2013.01 - EP US); **F04D 29/4213** (2013.01 - EP US); **F04D 29/701** (2013.01 - EP US)

Cited by  
EP3112688A1; EP3693610A1; EP3851680A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2039941 A2 20090325; EP 2039941 A3 20160601; EP 2039941 B1 20171108**; DE 102007044945 A1 20090409;  
US 2009092484 A1 20090409; US 8070418 B2 20111206

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**EP 08016073 A 20080912**; DE 102007044945 A 20070920; US 28419708 A 20080919