

Title (en)  
TURBOMOLECULAR PUMP

Title (de)  
TURBOMOLEKULARPUMPE

Title (fr)  
POMPE TURBOMOLÉCULAIRE

Publication  
**EP 2805057 A1 20141126 (DE)**

Application  
**EP 13700495 A 20130108**

Priority  
• DE 202012000611 U 20120121  
• EP 2013050172 W 20130108

Abstract (en)  
[origin: WO2013107667A1] A turbomolecular pump has a rotor element (18) in a housing (16). The rotor element (18) is arranged on a rotor shaft (10). The rotor shaft (10) is supported by two bearing elements (12, 14) in the housing (16). The bearing element (12) on the high-vacuum side is constructed as a roller bearing. In order to guarantee a pressure in the area of the bearing element (12) that is acceptable for the bearing element (12) constructed as a roller bearing, the bearing element (12) is arranged in a chamber (36). Said chamber is connected via a channel (46) to the pre-vacuum area (38) and sealed relative to the high-vacuum area (34) by a gasket.

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/059** (2006.01); **F04D 29/08** (2006.01)

CPC (source: EP US)  
**F04D 19/04** (2013.01 - EP US); **F04D 19/042** (2013.01 - US); **F04D 29/046** (2013.01 - US); **F04D 29/059** (2013.01 - EP US);  
**F04D 29/08** (2013.01 - EP US); **F04D 29/083** (2013.01 - US)

Citation (search report)  
See references of WO 2013107667A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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US 201314372338 A 20130108