

Title (en)  
Turbomolecular pump

Title (de)  
Turbomolekularpumpe

Title (fr)  
Pompe turbomoléculaire

Publication  
**EP 1236906 A1 20020904 (DE)**

Application  
**EP 02001844 A 20020126**

Priority  
DE 10107341 A 20010216

Abstract (en)  
[origin: US2002114695A1] A vacuum pump including a housing having a suction opening in its high-vacuum region, a gas outlet opening in its high pressure region, pump-active cooperating rotor and stator components arranged in the housing for pumping gases from the suction opening to the outlet opening, with an end of the pump-active components adjoining the high pressure region being connected with the gas outlet opening via intermediate chamber, a heating device provided in the intermediate chamber and connected with stator components, which are located in the high pressure region, by a connection having a high thermal conductivity, and thermal resistance elements for separating the heating device from the housing.

Abstract (de)  
Bei einer Vakuumpumpe werden Bauteile, die sich im Bereich höheren Druckes befinden und die durch Ablagerungen besonders bedroht sind, gezielt aufgeheizt. Dazu wird die Wärme mit Hilfe thermischer Anbindung gezielt an kritische Stellen gebracht. Bauteile, für die eine höhere Temperatur unerwünscht ist, werden durch Wärmeleitwiderstände (26, 27) von der Heizung (20) und den beheizten Teilen isoliert.

IPC 1-7  
**F04D 19/04**

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/58** (2006.01)

CPC (source: EP US)  
**F04D 19/04** (2013.01 - EP US); **F04D 29/584** (2013.01 - EP US); **F04D 29/5853** (2013.01 - EP); **F05D 2260/607** (2013.01 - EP)

Citation (search report)

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- [YD] US 5577883 A 19961126 - SCHUETZ GUENTER [DE], et al
- [A] EP 0451708 A2 19911016 - HITACHI LTD [JP]
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**EP 1236906 A1 20020904**; **EP 1236906 B1 20100707**; DE 10107341 A1 20020829; DE 50214516 D1 20100819; JP 2002276586 A 20020925; JP 4673538 B2 20110420; US 2002114695 A1 20020822; US 6699009 B2 20040302

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