

Title (en)  
DRAG VACUUM PUMP

Title (de)  
REIBUNGSVAKUUMPUMPE

Title (fr)  
POMPE A VIDE A FRICTION

Publication  
**EP 1797331 A1 20070620 (DE)**

Application  
**EP 05791919 A 20050921**

Priority  
• EP 2005054735 W 20050921  
• DE 102004047930 A 20041001

Abstract (en)  
[origin: US2008206041A1] A friction vacuum pump ( 10 ) comprises a housing ( 12 ) defining a vaneless pump stator ( 30 ), a rotor drive and a rotor support which rotatably supports a pump rotor ( 16 ) provided with a vane ( 18 ). The housing ( 12 ) surrounds the overall axial length of the pump rotor ( 16 ), the rotor drive and the rotor support. Prior art housings are of multipart configuration and thus comprise seals between the housing portions. The seals are difficult to coat and may be or become locations where leaks occur. In contrast, the housing ( 12 ) is of one-piece configuration such that, in any case, the region of the housing ( 12 ) which is in contact with the vacuum gas is free of seals.

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/40** (2006.01); **F04D 29/52** (2006.01)

CPC (source: EP US)  
**F04D 19/044** (2013.01 - EP US); **F04D 29/644** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006037730A1

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