

Title (en)

ROTOR DEVICE FOR A VACUUM PUMP, AND VACUUM PUMP

Title (de)

VAKUUUMPUMPEN-ROTOREINRICHTUNG SOWIE VAKUUUMPUMPE

Title (fr)

DISPOSITIF À ROTOR DE POMPE À VIDE ET POMPE À VIDE

Publication

**EP 3069027 B1 20200909 (DE)**

Application

**EP 14796740 A 20141105**

Priority

- DE 202013010195 U 20131112
- EP 2014073771 W 20141105

Abstract (en)

[origin: WO2015071143A1] A rotor device for a vacuum pump comprises a rotor shaft (10) and at least one rotor element (12) on the rotor shaft (10). According to the invention, the at least one rotor element (12) contains aluminum, titanium and/or CFRP, while the rotor shaft (10) contains a chromium-nickel steel. This makes it in particular possible to join the at least one rotor element (12) to the rotor shaft (10) at room temperature using a pressing process.

IPC 8 full level

**F04D 19/04** (2006.01); **F04D 29/02** (2006.01); **F04D 29/32** (2006.01)

CPC (source: EP KR US)

**F04D 19/04** (2013.01 - EP KR US); **F04D 19/042** (2013.01 - EP KR US); **F04D 25/06** (2013.01 - US); **F04D 29/023** (2013.01 - EP KR US);  
**F04D 29/321** (2013.01 - EP KR US); **F05D 2300/173** (2013.01 - EP US); **F05D 2300/174** (2013.01 - EP US); **F05D 2300/43** (2013.01 - EP US);  
**F05D 2300/603** (2013.01 - EP US)

Citation (examination)

- US 2009246038 A1 20091001 - KAWASAKI HIROYUKI [JP], et al
- US 2001018018 A1 20010830 - CONRAD ARMIN [DE], et al

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 RS SE SI SK SM TR

DOCDB simple family (publication)

**DE 202013010195 U1 20150218**; CN 105765231 A 20160713; CN 105765231 B 20181026; EP 3069027 A1 20160921;  
EP 3069027 B1 20200909; JP 2016537552 A 20161201; JP 6532461 B2 20190619; KR 102202936 B1 20210113; KR 20160081921 A 20160708;  
US 2016290343 A1 20161006; WO 2015071143 A1 20150521

DOCDB simple family (application)

**DE 202013010195 U 20131112**; CN 201480061311 A 20141105; EP 14796740 A 20141105; EP 2014073771 W 20141105;  
JP 2016530198 A 20141105; KR 20167012390 A 20141105; US 201415035492 A 20141105