

Title (en)

High speed rotor for a vacuum pump

Title (de)

Schnell drehender Rotor für eine Vakuumpumpe

Title (fr)

Rotor tournant rapidement pour une pompe à vide

Publication

**EP 2597313 B1 20180725 (DE)**

Application

**EP 12191948 A 20121109**

Priority

DE 102011119506 A 20111126

Abstract (en)

[origin: EP2597313A2] The rotor (10) has a casing (16), a supporting structure i.e. disk-shaped hub (14), and another casing (18) arranged within the former casing, where the casings form a chemically-stable interconnection. The former casing is made of carbon fiber-reinforced material, and the latter casing is made of metal alloy. The latter casing has a helix-like groove on an inner surface, where the former casing and the supporting structure are connected with one another by an adhesive joint. The latter casing and the supporting structure are designed as a single-piece. An independent claim is also included for a vacuum pump.

IPC 8 full level

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

CPC (source: EP)

**F04D 19/044** (2013.01); **F04D 29/023** (2013.01); **F05D 2300/17** (2013.01); **F05D 2300/603** (2013.01)

Cited by

EP2896837A3; EP3611381A1; WO2015062909A1; WO2015007598A1

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)

**EP 2597313 A2 20130529; EP 2597313 A3 20141112; EP 2597313 B1 20180725**; DE 102011119506 A1 20130529; JP 2013113300 A 20130610; JP 6017278 B2 20161026

DOCDB simple family (application)

**EP 12191948 A 20121109**; DE 102011119506 A 20111126; JP 2012256006 A 20121122