

Title (en)
SCREW VACUUM PUMP

Title (de)
SCHRAUBENVAKUUMPUMPE

Title (fr)
POMPE À VIDE À VIS

Publication
EP 2615307 B1 20190821 (DE)

Application
EP 12000151 A 20120112

Priority
EP 12000151 A 20120112

Abstract (en)
[origin: EP2615307A1] The rotor (1) has a rotor core (3) arranged and fitted on a rotor shaft (2), where the rotor shaft is made of copper or aluminum alloys. The rotor core partially surrounds a rotor casing (4), and is made of material with heat conductivity greater than 200 W/mK. The rotor shaft and the rotor core are integrally formed. The rotor shell is applied on the rotor core using an injection molding process, and reinforces with a filler such as glass fibers, carbon fibers or plastic material. An independent claim is also included for a screw vacuum pump.

IPC 8 full level
F04C 18/16 (2006.01); **F04C 2/16** (2006.01); **F04C 25/02** (2006.01); **F04C 29/00** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP US)
F04C 2/16 (2013.01 - US); **F04C 18/16** (2013.01 - EP US); **F04C 25/02** (2013.01 - EP US); **F04C 29/0078** (2013.01 - EP US); **F04C 29/0085** (2013.01 - EP US); **F04C 29/04** (2013.01 - EP US)

Citation (examination)
WO 8801695 A1 19880310 - SVENSKA ROTOR MASKINER AB [SE]

Cited by
DE202016005207U1; DE202016005209U1; DE102016100957A1; DE102016216279A1; IT201800009944A1; US11300123B2; WO2018041614A1; US11293435B2; WO2018041605A1; WO2021197704A1

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 2615307 A1 20130717; EP 2615307 B1 20190821; CN 103256224 A 20130821; US 2013183185 A1 20130718

DOCDB simple family (application)
EP 12000151 A 20120112; CN 201310010228 A 20130111; US 201313737787 A 20130109