

Title (en)  
Vacuum pump with rotor

Title (de)  
Vakuumpumpe mit Rotor

Title (fr)  
Pompe à vide avec rotor

Publication  
**EP 2520807 B1 20170510 (DE)**

Application  
**EP 12002241 A 20120328**

Priority  
DE 102011105806 A 20110505

Abstract (en)  
[origin: EP2520807A2] The vacuum pump has an assignment unit for assigning the balancing state for the position of a rotor (20), such that a balancing unit is adjusted to meet the change in the balancing state. The bearings (44,50) are provided for supporting the rotor. A sensor unit is provided for detecting the balancing state of the rotor and for interacting with an evaluation unit (134). The evaluation unit is designed to detect the change in the balance state. The bearings are comprised of the active magnetic radial bearings. An independent claim is included for a method for balancing a rotor of a vacuum pump.

IPC 8 full level  
**F04D 19/04** (2006.01); **F04D 29/058** (2006.01); **F04D 29/66** (2006.01)

CPC (source: EP)  
**F04D 19/042** (2013.01); **F04D 29/058** (2013.01); **F04D 29/059** (2013.01); **F04D 29/662** (2013.01)

Cited by  
US11333154B2; EP2746585A1; EP3244067A1; US11105203B2; EP2916009A3; EP3550150A1

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 2520807 A2 20121107; EP 2520807 A3 20140924; EP 2520807 B1 20170510**; DE 102011105806 A1 20121108; JP 2012233477 A 20121129; JP 6188278 B2 20170830

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**EP 12002241 A 20120328**; DE 102011105806 A 20110505; JP 2012099727 A 20120425