

Title (en)

BALANCED ROTOR FOR A ROTARY MACHINE AND METHOD FOR BALANCING A ROTOR

Title (de)

GEWUCHTETER ROTOR FÜR EINE ROTATIONS MASCHINE UND VERFAHREN ZUM AUSWUCHTEN EINES ROTORS

Title (fr)

ROTOR ÉQUILIBRÉ POUR MACHINE TOURNANTE ET PROCÉDÉ POUR ÉQUILIBRER UN ROTOR

Publication

EP 2622720 A2 20130807 (DE)

Application

EP 11740888 A 20110728

Priority

- DE 102010041599 A 20100929
- EP 2011063014 W 20110728

Abstract (en)

[origin: WO2012052202A2] A balanced rotor and a method for balancing a rotor for a rotary machine, such as for example an electric motor, are described. The rotor (1) has at least one disc-shaped rotor body (9), which has magnetic elements (13) in the region of an outer circumference (11). A plurality of off-centre clearances (21) are also formed in the rotor body (9). In order to balance the rotor body (9), a rivet (23), for example in the form of a blind rivet or a Rivscrew® rivet, may be introduced and pressed into one or more of these clearances (41). The rivet (23) is thereby introduced directly into the rotor body (9). There is no need for an additional annular balancing disc. This makes simple, low-cost and reliable balancing of the rotor possible.

IPC 8 full level

H02K 15/16 (2006.01)

CPC (source: EP US)

G01M 1/36 (2013.01 - EP US); **H02K 7/04** (2013.01 - US); **H02K 15/165** (2013.01 - EP US); **Y10T 29/49012** (2015.01 - EP US)

Citation (search report)

See references of WO 2012052202A2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

DE 102010041599 A1 20120329; CN 103222163 A 20130724; EP 2622720 A2 20130807; US 2013257189 A1 20131003; WO 2012052202 A2 20120426; WO 2012052202 A3 20130502

DOCDB simple family (application)

DE 102010041599 A 20100929; CN 201180046874 A 20110728; EP 11740888 A 20110728; EP 2011063014 W 20110728; US 201113876956 A 20110728