

Title (en)

BEARING, IN PARTICULAR SHOCK ABSORBER DEVICE, AND ROTATING PART OF A CLOCK MOVEMENT

Title (de)

LAGER, INSBESONDERE ZUR STOSSDÄMPFUNG, UND DREHTEIL EINES UHRWERKS

Title (fr)

PALIER, NOTAMMENT AMORTISSEUR DE CHOC, ET MOBILE TOURNANT D'UN MOUVEMENT HORLOGER

Publication

EP 3671368 B1 20221123 (FR)

Application

EP 18214830 A 20181220

Priority

EP 18214830 A 20181220

Abstract (en)

[origin: US2020201259A1] A bearing for an arbor or staff of a rotary wheel set of a timepiece movement, the bearing including a bearing block provided with a housing and an endstone arranged inside the housing, the endstone having a main body provided with a cavity configured to receive a pivot of the arbor of the rotary wheel set, the pivot having the shape of a first cone having a first solid angle, the apex of the first cone being rounded with a predefined first radius of curvature in a range from 0.2 μm to 50 μm , the cavity having a second cone shape with a second solid angle, greater than the first solid angle, so that the pivot can rotate in the cavity, the apex of the second cone being rounded and having a predefined second radius of curvature. The second radius of curvature is smaller than the first radius of curvature.

IPC 8 full level

G04B 31/04 (2006.01); **G04B 31/004** (2006.01); **G04B 31/012** (2006.01); **G04B 31/016** (2006.01); **G04B 31/06** (2006.01)

CPC (source: CN EP US)

G04B 13/02 (2013.01 - US); **G04B 29/02** (2013.01 - CN); **G04B 31/004** (2013.01 - EP); **G04B 31/012** (2013.01 - EP US); **G04B 31/016** (2013.01 - EP); **G04B 31/02** (2013.01 - US); **G04B 31/04** (2013.01 - EP); **G04B 31/06** (2013.01 - EP); **G04B 33/00** (2013.01 - CN); **G04B 37/04** (2013.01 - CN)

Cited by

CN113848693A

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 3671368 A1 20200624; **EP 3671368 B1 20221123**; CN 111352332 A 20200630; CN 111352332 B 20220225; JP 2020101539 A 20200702; JP 2022171887 A 20221111; JP 7411040 B2 20240110; US 11592784 B2 20230228; US 2020201259 A1 20200625

DOCDB simple family (application)

EP 18214830 A 20181220; CN 201911329064 A 20191220; JP 2019224233 A 20191212; JP 2022149179 A 20220920; US 201916713079 A 20191213