

Title (en)
Balance with optimised pivotal movement

Title (de)
Unruh mit optimierter Drehbewegung

Title (fr)
Balancier à pivotement optimisé

Publication
EP 2551732 B1 20200506 (FR)

Application
EP 12177552 A 20120724

Priority
• EP 11405295 A 20110729
• EP 12177552 A 20120724

Abstract (en)
[origin: EP2551732A1] The wheel is qualified by a specific expression with parameter diameter of the wheel, frequency of an oscillator and the moment of inertia, where the wheel is pivoted by a bearing of a pivoting arrangement. The diameter of the wheel ranges between 7 and 10 mm, and the moment of inertia is greater than or equal to 12×10^{-10} kilogram per square meter. The frequency of the oscillator is about 4 Hz. The diameter of the wheel is greater than that of an external periphery of a felloe or rim of the wheel. An independent claim is also included for an arrangement for pivoting a balance wheel for timepiece movement.

IPC 8 full level
G04B 17/06 (2006.01)

CPC (source: EP US)
G04B 17/063 (2013.01 - EP US)

Citation (examination)
EP 2395402 A1 20111214 - MONTRES BREGUET SA [CH]

Cited by
EP3839653A1; EP3637195A1; US11520293B2; EP3839654A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 2551732 A1 20130130; EP 2551732 B1 20200506; CH 705292 A2 20130131; CH 705292 B1 20161215; CN 102902193 A 20130130; CN 102902193 B 20151125; JP 2013033037 A 20130214; JP 6231264 B2 20171115; US 2013028056 A1 20130131; US 9016933 B2 20150428

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EP 12177552 A 20120724; CH 11252012 A 20120725; CN 201210324150 A 20120727; JP 2012163200 A 20120724; US 201213556699 A 20120724