

Title (en)
Mechanical oscillator

Title (de)
Mechanischer Oszillator

Title (fr)
Oscillateur mécanique

Publication
EP 2273323 A2 20110112 (FR)

Application
EP 10166943 A 20100622

Priority
CH 10782009 A 20090710

Abstract (en)
The oscillator has an annular felloe (18) centered on an oscillation axis and mounted on an attachment portion (32) that is located on the axis. A fixation portion (10) is fixed to a frame along a clockwise direction. Elastic systems connect the felloe and the fixation portion, where the systems are suspended and free from the frame. The fixation portion is equipped with two elastic blades (34) that are connected by another attachment portion (36). Return bodies include other elastic blades (22) and are made of synthetic polycrystalline diamond or silicon covered with an oxide layer. The felloe is made of metallic material.

Abstract (fr)
La présente invention concerne un oscillateur mécanique oscillant autour d'un axe d'oscillation sans pivot, ledit oscillateur comportant : - une serge (18) centrée sur l'axe d'oscillation et montée sur une première portion d'attache (32) située sur ledit axe d'oscillation, - une portion de fixation (10) destinée à être fixée à un bâti d'un mouvement d'horlogerie, - une pluralité de systèmes élastiques reliant la serge et la portion de fixation. Selon l'invention, au moins certain des systèmes élastiques sont suspendus et sont libres en référence audit bâti.

IPC 8 full level
G04B 17/04 (2006.01)

CPC (source: EP)
G04B 17/045 (2013.01)

Citation (applicant)
EP 1736838 A1 20061227 - SUISSE ELECTRONIQUE MICROTECH [CH]

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EP4273633A1; EP2975470A1; EP2975469A1; WO2017055987A1; WO2017055986A1; JP2018081094A; CN109690424A; CN110632838A; CN111344640A; EP4163735A1; KR20180061198A; JP2018535431A; JP2019191160A; CH708937A1; CN105278310A; EP2887151A3; US10133238B2; WO2019156552A1; EP2911012A1; EP3457221A3; JP2018081087A; EP3572885A1; CN110531604A; EP4009115A1; CN114578672A; JP2022088332A; EP3021174A1; CN107257944A; JP2017534892A; WO2016079068A1; WO2020016131A1; US10838364B2; JP2019508701A; JP2019536034A; EP3992730A1; US9323222B2; CN105319940A; KR20170037823A; CN107065493A; FR3048792A1; EP3355130A1; RU2729625C2; JP2016020905A; US9207641B2; EP3637196A1; US11543775B2; WO2017157870A1; EP3037893A1; US11029649B2; EP2887151A2; US9541902B2; JP2016020906A; EP3206089B1; EP2553533B2

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