

Title (en)

Timepiece including a high-frequency mechanical movement

Title (de)

Uhr mit einem mechanischen Hochfrequenzuhrwerk

Title (fr)

Pièce d'horlogerie comportant un mouvement mécanique à haute fréquence

Publication

EP 2363762 A1 20110907 (FR)

Application

EP 10155490 A 20100304

Priority

EP 10155490 A 20100304

Abstract (en)

The timepiece has a movement (5) comprising a resonator (9) constituted of a variable inertia type balance (8) and a balance spring (10), and an escape system (7) constituted of an escape wheel (11) and Swiss lever (13). The balance oscillates at 72,000 vibrations per hour. The escape system is partially pierced to reduce inertia of the escape system. The escape wheel is provided with 20 teeth, where the wheel is made of monocrystalline silicon coated with silicon dioxide. The lever has pallet stones made of ruby.

Abstract (fr)

L'invention se rapporte à une pièce d'horlogerie (1) comportant un mouvement (5) comprenant un résonateur (9) du type balancier (8) - spiral (10) et un système d'échappement (7) du type roue (11) - ancre suisse (13). Selon l'invention, le balancier (8) oscille à plus de 36'000 alternances par heure et le système d'échappement (7) est au moins partiellement ajouré afin de diminuer son inertie. L'invention concerne le domaine des mouvements horlogers à haute fréquence.

IPC 8 full level

G04B 15/08 (2006.01)

CPC (source: EP US)

G04B 13/022 (2013.01 - EP US); **G04B 13/027** (2013.01 - EP US); **G04B 15/08** (2013.01 - EP US); **G04F 7/0866** (2013.01 - EP US)

Citation (search report)

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- [A] WO 2004029733 A2 20040408 - FORE EAGLE CO LTD [CN], et al
- [Y] EP 2107434 A1 20091007 - MANUF ET FABRIQUE DE MONTRES E [CH], et al
- [A] EP 1983388 A1 20081022 - ETA SA MFT HORLOGERE SUISSE [CH]

Citation (third parties)

Third party :

- EP 2230570 A2 20100922 - MHVJ MANUFACTURE HORLOGERE VAL [CH]
- GENOLET G. ET AL: "Nouvelles fonctionnalités pour pièces horlogères données par la technologie LiG(A)", BULLETIN SSC, no. 46, September 2004 (2004-09-01), pages 19 - 22, XP003028694

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Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (application)

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