

Title (en)

Timepiece with a mechanical movement coupled to an electronic regulator mechanism

Title (de)

Uhr mit einem mechanischen Uhrwerk, das mit einem elektronischen Regulator gekoppelt ist

Title (fr)

Pièce d'horlogerie ayant un mouvement mécanique associé à un régulateur électronique

Publication

EP 1521142 B1 20070530 (FR)

Application

EP 03022030 A 20031001

Priority

EP 03022030 A 20031001

Abstract (en)

[origin: EP1521142A1] The timepiece has a mechanical regulator that is provided with a hairspring (21) associated with a pendulum. The pendulum is rotatably mounted between a plate and a balance bridge (23), and has a felloe with a pair of permanent magnets. The direction of magnetization is parallel to the axis of pendulum. An electronic regulator has a fixed coil (12) arranged to cooperate with the magnets via electromagnetic coupling.

IPC 8 full level

G04B 17/00 (2006.01); **G04C 10/00** (2006.01); **G04C 3/06** (2006.01)

CPC (source: EP US)

G04C 3/066 (2013.01 - EP US); **G04C 10/00** (2013.01 - EP)

Cited by

CN109946949A; KR100918186B1; EP2282240A3; US7396154B2; WO2006045824A3; WO2008011738A3; CN109946948A; EP3944027A1; EP3502797A1; EP3502796A1; EP3502798A1; EP2652560B1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1521142 A1 20050406; **EP 1521142 B1 20070530**; AT E363676 T1 20070615; CN 100480901 C 20090422; CN 1603980 A 20050406; DE 60314143 D1 20070712; DE 60314143 T2 20080131; HK 1075706 A1 20051223; JP 2005106829 A 20050421; JP 4630621 B2 20110209; SG 110214 A1 20050428; US 2005073913 A1 20050407; US 7016265 B2 20060321

DOCDB simple family (application)

EP 03022030 A 20031001; AT 03022030 T 20031001; CN 200410085198 A 20040930; DE 60314143 T 20031001; HK 05107794 A 20050905; JP 2004289800 A 20041001; SG 200406355 A 20040927; US 95345104 A 20040930