

Title (en)
balance wheel with inertia adjustment with insert

Title (de)
Unruh mit Trägheitsregulierung mit Einsatzteil

Title (fr)
Balancier à réglage d'inertie avec insert

Publication
EP 2410386 B1 20181003 (FR)

Application
EP 10170005 A 20100719

Priority
EP 10170005 A 20100719

Abstract (en)
[origin: EP2410386A1] The method involves equipping a balance (1) and/or an insert (7) of elastic maintaining units (10) arranged to allow insertion of the insert into a housing (8) in an insertion position in which the maintaining units are under stress and to prohibit extraction of the insert out of the housing in a maintaining position in which the maintaining units are released. The insert is inserted into the housing by binding the maintaining units in the insertion position, and the maintaining units are released in the maintaining position after full insertion of the insert into the housing. An independent claim is also included for a timepiece incorporating a hairspring or a balance.

IPC 8 full level
G04B 17/20 (2006.01); **G04B 17/06** (2006.01); **G04B 17/22** (2006.01); **G04B 18/00** (2006.01)

CPC (source: EP KR US)
G04B 17/06 (2013.01 - KR); **G04B 17/063** (2013.01 - EP US); **G04B 17/20** (2013.01 - US); **G04B 17/222** (2013.01 - US);
G04B 18/00 (2013.01 - KR); **G04B 18/006** (2013.01 - EP US); **Y10T 29/49826** (2015.01 - EP US)

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

Cited by
CH713286A1; EP3118693A1; CN106353998A; RU2698187C1; EP2990882A1; CN105388743A; EP2746871A1; CN103885318A;
JP2014122902A; US9804568B2; US9128462B2; US9547278B2

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2410386 A1 20120125; EP 2410386 B1 20181003; CH 705541 B1 20160331; CN 103097966 A 20130508; CN 103097966 B 20140917;
EP 2596407 A1 20130529; EP 2596407 B1 20181121; HK 1185154 A1 20140207; JP 2013531258 A 20130801; JP 5551313 B2 20140716;
KR 101457312 B1 20141104; KR 20130041912 A 20130425; US 2013188461 A1 20130725; US 8944675 B2 20150203;
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EP 10170005 A 20100719; CH 2062013 A 20110705; CN 201180035313 A 20110705; EP 11731310 A 20110705; EP 2011061294 W 20110705;
HK 13112421 A 20131105; JP 2013520044 A 20110705; KR 20137001461 A 20110705; US 201113809032 A 20110705