

Title (en)

BALANCE FOR TIMEPIECE AND METHOD FOR MANUFACTURING SUCH A BALANCE

Title (de)

UNRUH FÜR UHR UND VERFAHREN ZUR HERSTELLUNG EINER SOLCHEN UNRUH

Title (fr)

BALANCIER POUR PIECE D'HORLOGERIE ET PROCEDE DE FABRICATION D'UN TEL BALANCIER

Publication

EP 3729201 A1 20201028 (FR)

Application

EP 18808035 A 20181203

Priority

- EP 17210298 A 20171222
- EP 2018083295 W 20181203

Abstract (en)

[origin: WO2019120959A1] The invention relates to a balance (1) for a timepiece comprising a fellow (2), a hub (4) and at least one arm (8) connecting the hub (4) to said fellow (2), at least one portion of the balance (1) being made of an at least partially amorphous metal alloy, characterised in that said at least partially amorphous metal alloy is based on an element chosen from the group that comprises platinum, zirconium and titanium, and has a thermal expansion coefficient of 7 ppm/°C to 12 ppm/°C. The present invention also relates to a method for manufacturing such a balance by moulding as well as to a resonator comprising such a balance and a monocrystalline quartz hairspring.

IPC 8 full level

G04B 17/22 (2006.01)

CPC (source: EP US)

G04B 17/222 (2013.01 - EP US); **G04B 17/227** (2013.01 - EP US)

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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3502786 A1 20190626; CN 111492318 A 20200804; EP 3729201 A1 20201028; JP 2021505876 A 20210218; JP 6982183 B2 20211217; US 11809137 B2 20231107; US 2021181679 A1 20210617; WO 2019120959 A1 20190627

DOCDB simple family (application)

EP 17210298 A 20171222; CN 201880081961 A 20181203; EP 18808035 A 20181203; EP 2018083295 W 20181203; JP 2020530619 A 20181203; US 201816767778 A 20181203