

Title (en)

METHOD FOR ATTACHING A HAIRSPRING FOR MECHANICAL CLOCK MOVEMENT

Title (de)

BEFESTIGUNGSVERFAHREN EINER SPIRALFEDER FÜR EIN MECHANISCHES UHRWERK

Title (fr)

PROCEDE DE FIXATION D'UN SPIRAL POUR MOUVEMENT D'HORLOGERIE MECANIQUE

Publication

EP 3211486 A1 20170830 (FR)

Application

EP 16157390 A 20160225

Priority

EP 16157390 A 20160225

Abstract (en)

[origin: JP2017151080A] PROBLEM TO BE SOLVED: To provide a method of attaching a balance spring so that it does not deviate from its static position without inducing a mechanical stress in the balance spring.SOLUTION: A method of attaching a final outer coil (12) of a balance spring (4) for timepiece to an inside of a groove (70) disposed in a stud (14) is provided. This method includes a step of adhesively bonding the final outer coil (12) of the balance spring (4) for timepiece using a fluent adhesive having a viscosity of 200-400 mPa s.SELECTED DRAWING: Figure 2B

Abstract (fr)

Procédé de fixation d'une dernière spire à l'extérieur (12) d'un spiral horloger (4) dans une rainure (70) ménagée dans un piton (14), ce procédé comprenant l'étape qui consiste à coller la dernière spire à l'extérieur (12) du spiral horloger (4) au moyen d'une colle fluide dont la viscosité est comprise entre 200 et 400 mPa.s.

IPC 8 full level

G04B 17/32 (2006.01)

CPC (source: CN EP US)

G04B 17/063 (2013.01 - US); **G04B 17/325** (2013.01 - EP US); **G04B 17/34** (2013.01 - CN US)

Citation (search report)

- [A] WO 2014023584 A1 20140213 - ETA SA MFT HORLOGERE SUISSE [CH]
- [A] CH 571733 B5 19760115 - AUGSBURGER JEAN JACQUES
- [A] JP 2015179071 A 20151008 - CITIZEN HOLDINGS CO LTD
- [A] FR 2283475 A1 19760326 - EPSILON SARL [FR]
- [A] FR 2255648 A1 19750718 - EPSILON SARL [FR]
- [A] EP 0853094 A1 19980715 - SEIKO EPSON CORP [JP]

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 3211486 A1 20170830; EP 3211486 B1 20180926; CN 107121918 A 20170901; CN 107121918 B 20190917; EP 3432083 A1 20190123; JP 2017151080 A 20170831; JP 6259056 B2 20180110; TW 201732466 A 20170916; TW I701528 B 20200811; US 10018965 B2 20180710; US 2017248918 A1 20170831

DOCDB simple family (application)

EP 16157390 A 20160225; CN 201611121756 A 20161208; EP 18183176 A 20160225; JP 2016237311 A 20161207; TW 105134437 A 20161025; US 201615298498 A 20161020