

Title (en)
Manufacturing method of an arbour of a timepiece barrel

Title (de)
Verfahren zur Herstellung eines Uhrfederhauswelle

Title (fr)
Procédé de fabrication d'un arbre de barillet horloger

Publication
EP 2674817 A3 20170517 (FR)

Application
EP 13163792 A 20130415

Priority
• EP 12165537 A 20120425
• EP 13163792 A 20130415

Abstract (en)
[origin: EP2657794A1] The method involves machining or turning a complete external contour of a barrel arbor (1) in a touching-up operation of a drawn bar (50) about a touching-up axis (DC) parallel to or merged with a drawing direction. A groove (33) is machined in the touching-up operation, where width of the groove is adjusted along direction of the touching-up axis to hold an inner coil of a mainspring in the direction of the touching-up axis on a point on revolution of the groove and the groove is tangent to a profile in shape of a snail in a zone relative to the axis of revolution of the groove. The touching-up operation is a bar turning operation.

IPC 8 full level
G04B 1/16 (2006.01); **G04B 1/18** (2006.01)

CPC (source: EP RU US)
G04B 1/16 (2013.01 - EP US); **G04B 1/18** (2013.01 - EP US); **G04B 1/16** (2013.01 - RU); **G04B 1/18** (2013.01 - RU);
Y10T 29/49581 (2015.01 - EP US)

Citation (search report)
• [A] US 820252 A 19060508 - PORTER WILSON E [US]
• [A] US 3846974 A 19741112 - GIGER U
• [A] CH 117808 A 19261201
• [A] FR 2329000 A1 19770520 - EBAUCHESFABRIK ETA AG [CH]

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EP3267265A3; CH713389A1; US10935931B2

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 2657794 A1 20131030; EP 2657794 B1 20170201; CN 103376727 A 20131030; CN 103376727 B 20160210; EP 2674817 A2 20131218; EP 2674817 A3 20170517; EP 2674817 B1 20200527; HK 1190805 A1 20140711; JP 2013228393 A 20131107; JP 5749760 B2 20150715; RU 2013119128 A 20141027; RU 2609397 C2 20170201; US 2013283615 A1 20131031; US 9317013 B2 20160419

DOCDB simple family (application)
EP 12165537 A 20120425; CN 201310148320 A 20130425; EP 13163792 A 20130415; HK 14103820 A 20140422; JP 2013092016 A 20130425; RU 2013119128 A 20130424; US 201313869480 A 20130424