

Title (en)

PIECE OF CASING FOR A TIME PIECE AND SYSTEM FOR MANUFACTURING SAME

Title (de)

GEHÄUSETEIL FÜR EINE UHR UND SYSTEM ZU SEINER HERSTELLUNG

Title (fr)

PIÈCE D'HABILLAGE POUR UNE PIÈCE D'HORLOGERIE ET SON SYSTÈME DE FABRICATION

Publication

EP 2686135 B1 20150408 (FR)

Application

EP 12705111 A 20120217

Priority

- EP 11158456 A 20110316
- EP 2012052740 W 20120217
- EP 12705111 A 20120217

Abstract (en)

[origin: EP2500134A1] The system comprises a fixing device (25) having a casing (31) that is mounted to rotate according to a first axis and has a movement blank (23'), and a processing device (27) having an abrasive unit (33) mounted to rotate according to a second axis and designed to match the movement blank to form a first curvature. The processing device comprises a displacement unit (35), which is movable according to the first curvature for forming a second curvature. A direction of displacement unit is symmetrical to form the second curvature along one radius. The system comprises a fixing device (25) having a casing (31) that is mounted to rotate according to a first axis and has a movement blank (23'), and a processing device (27) having an abrasive unit (33) mounted to rotate according to a second axis and designed to match the movement blank to form a first curvature. The processing device comprises a displacement unit (35), which is movable according to the first curvature for forming a second curvature. A direction of displacement unit is symmetrical to form the second curvature along one radius, and is asymmetrical to form the second curvature along different radius. The casing is a hollow ring provided against an inner wall in which the blank is fixed and the abrasive unit is displaced in the ring to form first and second concave curves, and the casing is a disc provided against an outer wall in which the blank is fixed and the abrasive unit is displaced in the disc to form first and second convex curves. The abrasive unit is formed by an edge runner, by an actuator, which is moved back and forth against a profile of a cam fixed to the second curvature, and by a controller programmed to move according to the second curvature. Independent claims are included for: (1) a piece of casing; and (2) a timepiece.

IPC 8 full level

B24B 13/04 (2006.01); **B24B 13/06** (2006.01); **C03B 33/04** (2006.01); **G04D 3/06** (2006.01)

CPC (source: EP US)

B24B 13/00 (2013.01 - EP US); **B24B 13/06** (2013.01 - EP US); **B24B 41/06** (2013.01 - EP US); **G04B 39/004** (2013.01 - US); **G04D 3/065** (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

DOCDB simple family (publication)

EP 2500134 A1 20120919; CN 103442846 A 20131211; CN 103442846 B 20160622; EP 2686135 A1 20140122; EP 2686135 B1 20150408; HK 1192195 A1 20140815; JP 2014512974 A 20140529; JP 5931094 B2 20160608; RU 2013146015 A 20150427; RU 2590466 C2 20160710; US 2013343165 A1 20131226; US 9372474 B2 20160621; WO 2012123214 A1 20120920

DOCDB simple family (application)

EP 11158456 A 20110316; CN 201280013563 A 20120217; EP 12705111 A 20120217; EP 2012052740 W 20120217; HK 14105457 A 20140610; JP 2013558349 A 20120217; RU 2013146015 A 20120217; US 201214004320 A 20120217