

Title (en)

Cover part for a timepiece and system for the manufacturing thereof

Title (de)

Verkleidungsteil für eine Uhr, und sein Herstellungsverfahren

Title (fr)

Pièce d'habillage pour une pièce d'horlogerie et son système de fabrication

Publication

EP 2500134 A1 20120919 (FR)

Application

EP 11158456 A 20110316

Priority

EP 11158456 A 20110316

Abstract (en)

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.

Abstract (fr)

L'invention se rapporte à une pièce d'habillage (3, 23, 43, 63, 83, 103) comportant une surface supérieure (82, 102) et une surface inférieure (84, 104). Selon l'invention, au moins une des faces (82, 84, 102, 104) comporte une courbure longitudinale (C 2 , C 4) et une courbure transversale (C 1 , C 3) qui sont différentes. L'invention concerne le domaine des pièces d'habillage pour une pièce d'horlogerie.

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)

Citation (search report)

- [XY] WO 9815876 A1 19980416 - STETTLER HANS AG [CH], et al
- [XY] EP 2228694 A1 20100915 - STETTLER SAPPHIRE AG [CH]
- [Y] EP 0168010 A1 19860115 - RADO MONTRES SA [CH]

Cited by

CN109333178A

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 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