

Title (en)

Assembly of a part not comprising a plastic range

Title (de)

Zusammenbau eines Teils, das keinen Plastikbereich enthält

Title (fr)

Assemblage d'une pièce ne comportant pas de domaine plastique

Publication

EP 2469354 A3 20120704 (FR)

Application

EP 11190965 A 20111128

Priority

- EP 10196580 A 20101222
- EP 11190965 A 20111128

Abstract (en)

[origin: EP2469351A1] The method involves forming a single crystal silicon based part (3) with a circular aperture, and inserting a metal/metal alloy based intermediate portion (7) and a steel unit (15) into the aperture without any stress. The portion is elastically and plastically deformed by moving tools (13, 21) towards each other in an axial direction (A), respectively on top and bottom parts of the portion, to exert radial stress against a wall surrounding the aperture, causing elastic deformation of the part, to secure a single crystal silicon based part and steel unit assembly in a non-destructive manner.

IPC 8 full level

G04B 13/02 (2006.01); **B81C 3/00** (2006.01); **G04B 15/14** (2006.01); **G04B 17/32** (2006.01); **G04B 17/34** (2006.01); **G04D 1/00** (2006.01); **G04D 3/04** (2006.01)

CPC (source: EP US)

G04B 13/022 (2013.01 - EP US); **G04B 15/14** (2013.01 - EP US); **G04B 17/06** (2013.01 - EP US); **G04B 17/066** (2013.01 - EP US); **G04B 17/325** (2013.01 - EP US); **G04B 17/345** (2013.01 - EP US); **G04D 1/0042** (2013.01 - EP US); **G04D 3/04** (2013.01 - EP US); **Y10T 29/49581** (2015.01 - EP US); **Y10T 29/49934** (2015.01 - EP US); **Y10T 29/49938** (2015.01 - EP US)

Citation (search report)

- [A] CH 699680 A2 20100415 - RICHEMONT INT SA [CH]
- [A] EP 1850193 A1 20071031 - PATEK PHILIPPE SA [CH]
- [A] CH 700260 A2 20100730 - CARTIER CREATION STUDIO SA [CH]
- [A] FR 1427115 A 19660204 - AXHOR S A
- [AD] EP 2107433 A1 20091007 - MANUF ET FABRIQUE DE MONTRES E [CH]
- [A] EP 2075652 A1 20090701 - CHOPARD TECHNOLOGIES SA [CH]
- [A] WO 2008135817 A2 20081113 - PATEK PHILIPPE SA [CH], et al

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)

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