

Title (en)

TIMEPIECE COMPONENT HAVING A HIGH-ENTROPY ALLOY

Title (de)

UHRKOMPONENTE AUS HOCH-ENTROPIE-LEGIERUNG

Title (fr)

COMPOSANT HORLOGER COMPORTANT UN ALLIAGE HAUTE ENTROPIE

Publication

EP 3301520 A1 20180404 (FR)

Application

EP 16191867 A 20160930

Priority

EP 16191867 A 20160930

Abstract (en)

[origin: WO2018059795A1] The invention relates to a timepiece component comprising a high-entropy alloy, said high-entropy alloy comprising between 4 and 13 main elements forming a single solid solution, and the concentration of each of the main elements of the high-entropy alloy being between 1 and 55 atomic percent.

Abstract (fr)

Composant horloger comportant un alliage haute entropie, l'alliage haute entropie comportant entre 4 et 13 éléments principaux formant une unique solution solide, l'alliage haute entropie présentant une concentration en chaque élément principal comprise entre 1 et 55 % atomique.

IPC 8 full level

G04B 1/14 (2006.01); **G04B 5/16** (2006.01); **G04B 13/02** (2006.01); **G04B 29/02** (2006.01); **G04B 37/22** (2006.01)

CPC (source: EP RU US)

C22C 27/06 (2013.01 - EP US); **C22C 38/30** (2013.01 - EP US); **C22C 38/38** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US);
G04B 1/14 (2013.01 - RU); **G04B 1/145** (2013.01 - EP US); **G04B 5/16** (2013.01 - EP US); **G04B 13/02** (2013.01 - EP US);
G04B 29/027 (2013.01 - EP US); **G04B 37/22** (2013.01 - EP US)

Citation (search report)

- [XA] GB 647783 A 19501220 - ELGIN NAT WATCH CO
- [XA] CH 299223 A 19540531 - STRAUMANN REINHARD DR [CH]
- [XA] US 3928085 A 19751223 - YAMAMURA KATSUMI, et al
- [XA] WO 2005045532 A2 20050519 - SEIKO EPSON CORP [JP], et al

Cited by

WO2019073023A1

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 3301520 A1 20180404; CN 109804321 A 20190524; CN 109804321 B 20210727; EP 3519900 A1 20190807; EP 3519900 B1 20210505;
JP 2019534378 A 20191128; JP 6892914 B2 20210623; RU 2715832 C1 20200303; US 11042120 B2 20210622; US 2019235441 A1 20190801;
US 2020241475 A1 20200730; US 2021263470 A1 20210826; WO 2018059795 A1 20180405

DOCDB simple family (application)

EP 16191867 A 20160930; CN 201780059624 A 20170728; EP 17745346 A 20170728; EP 2017069219 W 20170728;
JP 2019513437 A 20170728; RU 2019112854 A 20170728; US 201716331038 A 20170728; US 202016775657 A 20200129;
US 202117177426 A 20210217