

Title (en)

DEVICE FOR HORN/MIDDLE CONNECTION FOR A WATCH

Title (de)

VORRICHTUNG FÜR EINE HORN-/MITTELVERBINDUNG FÜR EINE UHR

Title (fr)

DISPOSITIF DE CONNEXION CARRURE-CORNE POUR UNE MONTRE

Publication

**EP 4034946 A1 20220803 (FR)**

Application

**EP 20771985 A 20200821**

Priority

- EP 19199357 A 20190924
- EP 2020073474 W 20200821

Abstract (en)

[origin: WO2021058213A1] A method for attaching a horn on a middle of a watch, a horn/middle connection device and a horn/middle assembly, the horn comprising a first connector and the middle comprising a second connector having an undercut groove, the first connector interacting with the second connector in order to attach the horn on the middle. The method comprises: ○ placing the first connector of the horn in contact with the second connector of the middle, in such a way that one or more intermediate cavities are formed between the undercut groove and the first connector; ○ melting a part of the first connector of the horn in such a way as to create a molten material; ○ at least partially filling the one or more intermediate cavities by movement of the molten material; and ○ solidifying the molten material so as to rigidly connect the horn and the middle.

IPC 8 full level

**G04B 37/22** (2006.01); **G04B 37/14** (2006.01)

CPC (source: CN EP KR US)

**G04B 37/14** (2013.01 - CN); **G04B 37/1486** (2013.01 - CN EP KR US); **G04B 37/22** (2013.01 - EP KR US)

Citation (examination)

- CH 674604 B5 19901228 - EBAUCHESFABRIK ETA AG [CH]
- FR 3021128 A1 20151120 - OUALLI KEVIN [FR]
- See also references of WO 2021058213A1

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)

**WO 2021058213 A1 20210401**; CN 114430813 A 20220503; EP 4034946 A1 20220803; JP 2022546516 A 20221104; JP 7344371 B2 20230913; KR 102736552 B1 20241129; KR 20220050216 A 20220422; TW 202113514 A 20210401; TW I732666 B 20210701; US 12153381 B2 20241126; US 2022276611 A1 20220901

DOCDB simple family (application)

**EP 2020073474 W 20200821**; CN 202080066467 A 20200821; EP 20771985 A 20200821; JP 2022513931 A 20200821; KR 20227009783 A 20200821; TW 109129285 A 20200827; US 202017636207 A 20200821