

Title (en)

SONOTRODE, DEVICE AND METHOD FOR PRODUCING A JOIN

Title (de)

SONOTRODE, VORRICHTUNG SOWIE VERFAHREN ZUR HERSTELLUNG EINER VERBINDUNG

Title (fr)

SONOTRODE, DISPOSITIF ET PROCÉDÉ D'ÉTABLISSEMENT D'UNE LIAISON

Publication

**EP 3328579 A1 20180606 (DE)**

Application

**EP 16739093 A 20160713**

Priority

- DE 102015214408 A 20150729
- EP 2016066652 W 20160713

Abstract (en)

[origin: WO2017016875A1] The invention relates to a sonotrode (18) for producing a join, in particular a welded join and/or a soldered join, between a cable (17) and a sheath (17) covering the cable (17), comprising at least one working surface (2), wherein the working surface (2) is curved in a concave manner, at least in sections, in a second profile, in particular curved in a concave manner. The invention also relates to an anvil (10) comprising at least one counter surface (11), which is curved in a concave manner, at least in sections, in a second profile, in particular curved in a concave manner. The invention further relates to a device for producing a join between a cable (17) and a sheath (17) covering the cable (17), comprising a sonotrode (18) joined to an ultrasound source (8) at least at a joining surface (5), and comprising an anvil (10) arranged opposite the working surface (2) of the sonotrode (18). In addition, the invention relates to a method for producing a join between a cable (17) and a sheath (17) covering the cable (17).

IPC 8 full level

**B23K 20/10** (2006.01); **B23K 101/38** (2006.01)

CPC (source: EP KR US)

**B23K 20/106** (2013.01 - EP KR US); **H01R 4/187** (2013.01 - EP KR US); **H01R 43/0207** (2013.01 - EP KR US); **H01R 43/0263** (2013.01 - US); **B23K 2101/38** (2018.08 - EP KR 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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102015214408 B3 20160609**; **DE 102015214408 C5 20200109**; CN 108136536 A 20180608; CN 108136536 B 20231114; EP 3328579 A1 20180606; JP 2018530429 A 20181018; JP 7109359 B2 20220729; KR 102552995 B1 20230706; KR 20180035870 A 20180406; MA 42511 A 20180606; MX 2018001185 A 20180420; US 10554004 B2 20200204; US 2018219345 A1 20180802; WO 2017016875 A1 20170202

DOCDB simple family (application)

**DE 102015214408 A 20150729**; CN 201680055532 A 20160713; EP 16739093 A 20160713; EP 2016066652 W 20160713; JP 2018504186 A 20160713; KR 20187005932 A 20160713; MA 42511 A 20160713; MX 2018001185 A 20160713; US 201615747481 A 20160713