

Title (en)

ULTRASONIC WELDING APPARATUS WITH CLAMPING DEVICE AND METHOD FOR ULTRASONIC WELDING

Title (de)

ULTRASCHALLSCHWEISSVORRICHTUNG MIT SPANNEINRICHTUNG UND VERFAHREN ZUM ULTRASCHALLSCHWEISSEN

Title (fr)

DISPOSITIF DE SOUDAGE PAR ULTRASONS COMPRENANT UN DISPOSITIF DE SERRAGE ET PROCÉDÉ DE SOUDAGE PAR ULTRASONS

Publication

**EP 3471911 A1 20190424 (DE)**

Application

**EP 17729869 A 20170614**

Priority

- DE 102016210590 A 20160615
- EP 2017064474 W 20170614

Abstract (en)

[origin: WO2017216199A1] An ultrasonic welding apparatus (50) is disclosed, including a sonotrode (8) with a working surface (10), an anvil (4) with a working surface (11), which lies opposite the working surface (10) of the sonotrode (8), two side delimiters (5, 6) with respective side delimiting surfaces (12, 13), wherein the working surfaces (10, 11) of the sonotrode (8) and of the anvil (4) and the side delimiting surfaces (12, 13) delimit a compression chamber (9), which is designed for placing in particular elongated welding material (60) in a welding material direction (B), wherein the ultrasonic welding apparatus (50) has a clamping device (14), by means of which the anvil (4) can be clamped at least in a welding position (S) by a clamping force, which acts on at least part of a side (15) of the engaging surface (26) of the anvil (4) that lies opposite the working surface (11) of the anvil (4), in the direction of the sonotrode (8). A method for ultrasonic welding is also disclosed.

IPC 8 full level

**B23K 20/10** (2006.01); **H01R 43/02** (2006.01)

CPC (source: EP US)

**B23K 20/10** (2013.01 - EP US); **B23K 37/04** (2013.01 - US); **H01R 43/0207** (2013.01 - EP US); **H01R 43/28** (2013.01 - EP US); **B23K 2101/38** (2018.07 - US); **B23K 2103/10** (2018.07 - US); **B23K 2103/12** (2018.07 - US)

Citation (search report)

See references of WO 2017216199A1

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 102016210590 A1 20171221**; CN 109311118 A 20190205; CN 109311118 B 20211102; EP 3471911 A1 20190424; US 11370056 B2 20220628; US 2019224777 A1 20190725; WO 2017216199 A1 20171221

DOCDB simple family (application)

**DE 102016210590 A 20160615**; CN 201780037659 A 20170614; EP 17729869 A 20170614; EP 2017064474 W 20170614; US 201716309142 A 20170614