

Title (en)

DEVICE FOR THE LASER TRANSMISSION WELDING OF AN ANNULAR WELD SEAM

Title (de)

VORRICHTUNG ZUM LASERTRANSMISSIONSSCHWEIßEN EINER RINGFÖRMIGEN SCHWEIßNAHT

Title (fr)

DISPOSITIF DE SOUDAGE LASER PAR TRANSMISSION D'UN CORDON DE SOUDURE ANNULAIRE

Publication

**EP 3419784 A1 20190102 (DE)**

Application

**EP 17706665 A 20170203**

Priority

- DE 102016103230 A 20160224
- DE 2017100075 W 20170203

Abstract (en)

[origin: WO2017144048A1] The device contains a welding unit comprising a tube (3), a laser radiation unit (1) that emits laser radiation towards the tube axis (3.0) and a mandrel (4) that is arranged in the tube (3) coaxially with the latter and that is connected to the tube (3) by means of a retaining unit, for example formed by two spacer elements (5.1). The tube (3) and the circumferential surface of the mandrel (4) reflect the laser radiation of the laser radiation unit (1), such that the laser radiation is deflected towards the tube end (3.2) on the beam-exit-side and becomes toroidal, by multi-reflection between the tube (3) and the mandrel (4).

IPC 8 full level

**B23K 26/073** (2006.01); **B23K 26/12** (2014.01); **B23K 26/28** (2014.01); **B23K 33/00** (2006.01)

CPC (source: EP KR US)

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**B23K 26/128** (2013.01 - EP KR US); **B23K 26/28** (2013.01 - EP KR US); **B23K 26/57** (2015.10 - EP US); **B23K 33/00** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2017144048A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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