

Title (en)  
METHOD AND CLAMPING DEVICE FOR PRODUCING A WELD SEAM AT A BUTT JOINT BETWEEN TWO WORKPIECES BY MEANS OF A LASER BEAM

Title (de)  
VERFAHREN UND SPANNVORRICHTUNG ZUR HERSTELLUNG EINER SCHWEISSNAHT AN EINER STOSSSTELLE ZWISCHEN ZWEI WERKSTÜCKEN MIT EINEM LASERSTRAHL

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE SERRAGE PERMETTANT DE PRODUIRE UNE SOUDURE AU NIVEAU D'UN POINT DE CONTACT ENTRE DEUX PIÈCES AU MOYEN D'UN FAISCEAU LASER

Publication  
**EP 3860801 A1 20210811 (DE)**

Application  
**EP 19790115 A 20191002**

Priority  
• DE 102018124313 A 20181002  
• EP 2019076715 W 20191002

Abstract (en)  
[origin: WO2020070195A1] The present invention relates to a method for producing a weld seam at a butt joint (14) between two workpieces (15), wherein the workpieces (15) to be welded are positioned relative to each other by means of a clamping device (11), which comprises a plurality of clamping elements (18, 20, 22) and at least one base block (17), the first workpiece (15) being held between the base block (17) and a clamping surface (36) of the first clamping element (18) and a second workpiece (15) being held between the base block (17) and a clamping surface (36) of the second clamping element (20), a shielding gas being supplied to the butt joint (14), with the clamping elements (18, 20, 22) being aligned adjacent to the butt joint (14) of the workpieces (15) to be welded and the discharge gap (51) of the particular clamping element (18, 20) for the shielding gas being set back relative to the butt joint (14) of the workpieces (15) and a flushing channel (57) being formed between the discharge gap (51) and the butt joint (14). The invention also relates to a clamping device for producing a weld seam at a butt joint between two workpieces by means of laser.

IPC 8 full level  
**B23K 37/04** (2006.01); **B23K 26/14** (2014.01); **B23K 26/26** (2014.01)

CPC (source: EP)  
**B23K 26/147** (2013.01); **B23K 26/26** (2013.01); **B23K 37/0435** (2013.01)

Citation (search report)  
See references of WO 2020070195A1

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 102018124313 A1 20200402**; EP 3860801 A1 20210811; WO 2020070195 A1 20200409

DOCDB simple family (application)  
**DE 102018124313 A 20181002**; EP 19790115 A 20191002; EP 2019076715 W 20191002