Title (en)

METHOD FOR THE LASER WELDING OF TRANSPARENT WORKPIECES, AND ASSOCIATED LASER MACHINING TOOL

Title (de)

VERFAHREN ZUM LASERSCHWEIßEN VON TRANSPARENTEN WERKSTÜCKEN UND ZUGEHÖRIGE LASERBEARBEITUNGSMASCHINE

Title (fr)

PROCÉDÉ DE SOUDURE AU LASER DE PIÈCES TRANSPARENTS ET MACHINE DE TRAVAIL AU LASER CORRESPONDANTE

Publication

EP 3774675 A1 20210217 (DE)

Application

EP 19717791 A 20190405

Priority

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Abstract (en)

[origin: WO2019197298A1] In a method for laser welding two overlapping workpieces (2a, 2b) by means of a pulsed laser beam (3), more particularly an ultrashort pulse laser beam, which is directed through one workpiece (2a) to the other workpiece (2b) and is moved in a feed direction (10) relative to the two workpieces (2a, 2b) in order to create a weld seam (12) between the two workpieces (2a, 2b) resting against each other, the invention proposes that a deflection (11) back and forth of the laser beam (3) directed transverse or parallel to the feed direction (10) is superimposed on the laser beam (3) moved in the feed direction (10).

IPC 8 full level

C03B 23/203 (2006.01); **B23K 26/0622** (2014.01); **B23K 26/08** (2014.01); **B23K 26/244** (2014.01); **B23K 26/50** (2014.01); **B23K 26/57** (2014.01); B23K 103/00 (2006.01)

CPC (source: EP KR US)

B23K 26/0624 (2015.10 - EP KR US); **B23K 26/082** (2015.10 - US); **B23K 26/083** (2013.01 - US); **B23K 26/0876** (2013.01 - EP KR US); **B23K 26/244** (2015.10 - EP KR US); **B23K 26/324** (2013.01 - US); **B23K 26/50** (2015.10 - EP US); **B23K 26/57** (2015.10 - EP KR US); **C03B 23/203** (2013.01 - EP KR US); B23K 2103/52 (2018.07 - US); B23K 2103/54 (2018.07 - EP KR US)

Citation (search report)

See references of WO 2019197298A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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