

Title (en)

DEVICE AND METHOD FOR THE FRICTION STIR SPOT WELDING OF TWO WORKPIECES WITH A HOLLOW CYLINDER HAVING A DETACHABLE FRICTION LINER AND WITH A TOOL

Title (de)

VORRICHTUNG UND VERFAHREN ZUM RÜHRREIBPUNKTSCHWEISSEN ZWEIER WERKSTÜCKE MIT EINEM EINEN LÖSBAREN REIBBELAG AUFWEISENDEN HOHLZYLINDER UND EINEM WERKZEUG

Title (fr)

DISPOSITIF ET PROCÉDÉ DE SOUDAGE PONCTUEL PAR CONTACT DE FROTTEMENT DE DEUX PIÈCES, AVEC UN CYLINDRE CREUX PRÉSENTANT UNE GARNITURE DE FROTTEMENT LIBÉRABLE ET UN OUTIL

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Application

EP 09732474 A 20090414

Priority

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Abstract (en)

[origin: WO2009126981A1] The invention relates to a device (1) and a method for connecting at least two workpieces (7, 8) by friction welding. The device here comprises an axis (10) which can be driven in a rotating manner and on which a friction welding tool (1) is arranged, wherein the friction welding tool (1) has at least one pin-like tool (2), which can be driven in a rotating manner and is surrounded by at least one hollow cylinder (3), which can be driven in a rotating manner. The friction welding tool (1) can be moved along its axis of rotation (10) by the plastifying workpieces (7, 8), wherein the pin-like tool (2) and the hollow cylinder (3) can be moved independently of each other in the axial direction. The hollow cylinder (3) has on its side facing the at least one upper workpiece (7) a detachable friction liner (6) with a friction surface (5).

IPC 8 full level

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CPC (source: EP)

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