

Title (en)

WELDING TOOL COMPRISING A ROTATING PROBE, WELDING METHOD AND WORKPIECE

Title (de)

SCHWEISSWERKZEUG MIT DREHENDER SONDE, SCHWEISSVERFAHREN SOWIE WERKSTÜCK

Title (fr)

OUTIL DE SOUDAGE À TIGE TOURNANTE, PROCÉDÉ DE SOUDAGE ET PIÈCE

Publication

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Application

EP 12740292 A 20120601

Priority

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Abstract (en)

[origin: WO2012171523A2] The invention relates to a welding tool (10) for connecting at least two workpieces (28, 30) in a connection region (32) by means of friction stir welding. The welding tool (10) comprises a probe (12) arranged along an axis (A) of the welding tool (10), for applying friction heat to the workpieces (28, 30), and a shoulder surrounding the probe (12), for separating the connection region (32) from the surroundings (22). The shoulder (14) is mobile essentially parallel to the axis (A). The invention also relates to a welding method and to a workpiece (33) that has been produced using the welding tool (10) or the welding method.

IPC 8 full level

B23K 20/12 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2012171523A2

Citation (examination)

- US 5718366 A 19980217 - COLLIGAN KEVIN JAMES [US]
- WO 2009056759 A2 20090507 - EADS EUROP AERONAUTIC DEFENCE [FR], et al

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