

Title (en)

FRICTION WELDING PROCESS AND FRICTION STIR SPOT WELDER WITH AN INCREASE IN THE FORCE AT THE END OF WELDING

Title (de)

REIBSCHWEISSVERFAHREN UND RÜHRREIBPUNKTSCHWEISSGERÄT MIT EINER ERHÖHUNG DER KRAFT AM ENDE DES SCHWEISSENS

Title (fr)

PROCÉDÉ DE SOUDAGE PAR FRICTION ET APPAREIL DE SOUDAGE PAR POINTS PAR FRICTION-MALAXAGE PRÉSENTANT UNE AUGMENTATION DE LA FORCE À LA FIN DU SOUDAGE

Publication

EP 2516098 A1 20121031 (DE)

Application

EP 10796063 A 20101222

Priority

- EP 09015881 A 20091222
- EP 2010070499 W 20101222
- EP 10796063 A 20101222

Abstract (en)

[origin: EP2338633A1] The friction welding process comprises pressing a workpiece to be mounted on a component under rotation against the component, and partially melting or plasticizing the workpiece and the component on point of contact so that a tight connection is held after cooling. The power that is compressed with the workpiece and the component is increased at the end of the welding process in impact-like and temporary manner. An independent claim is included for a friction stir welding device.

IPC 8 full level

B23K 20/12 (2006.01)

CPC (source: EP)

B23K 20/122 (2013.01); **B23K 20/124** (2013.01); **B23K 20/1255** (2013.01); **B23K 20/1265** (2013.01)

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