

Title (en)

TOOL GEOMETRIES FOR FRICTION STIR SPOT WELDING OF HIGH MELTING TEMPERATURE ALLOYS

Title (de)

WERKZEUGGEOMETRIEN ZUM REIBSCHWEISSEN VON LEGIERUNGEN MIT HOHER SCHMELZTEMPERATUR

Title (fr)

GEOMETRIES D OUTIL DESTINEES A UN SOUDAGE PAR POINTS PAR FRICTION MALAXAGE D ALLIAGES A TEMPERATURE DE FUSION ELEVEE

Publication

EP 1848567 A2 20071031 (EN)

Application

EP 06849719 A 20060215

Priority

- US 2006005507 W 20060215
- US 65315805 P 20050215

Abstract (en)

[origin: WO2007086885A2] A tool for friction stir spot welding of high melting temperature materials, wherein the tool geometry includes a short pin and broad shoulder to enhance mixing of high temperature materials, and wherein the tool includes a superabrasive coating to thereby enable FSSW of high melting temperature materials .

IPC 8 full level

B23K 20/12 (2006.01)

CPC (source: EP)

B23K 20/1255 (2013.01); **B23K 2103/04** (2018.07); **B23K 2103/05** (2018.07)

Designated contracting state (EPC)

DE FR GB IE IT SE

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

WO 2007086885 A2 20070802; WO 2007086885 A3 20071115; CA 2597727 A1 20070802; EP 1848567 A2 20071031; EP 1848567 A4 20080709; JP 2008529805 A 20080807

DOCDB simple family (application)

US 2006005507 W 20060215; CA 2597727 A 20060215; EP 06849719 A 20060215; JP 2007556294 A 20060215