

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 A4 20080709 (EN)

Application
EP 06849719 A 20060215

Priority
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• 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)

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• [Y] GB 2306366 A 19970507 - WELDING INST [GB]
• [Y] US 2002014516 A1 20020207 - NELSON TRACY W [US], et al
• [A] WO 9310935 A1 19930610 - WELDING INST [GB]
• See references of WO 2007086885A2

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