

Title (en)
METHOD FOR LASER BEAM GMA HYBRID WELDING OF HIGH-STRENGTH FINE-GRAINED COMPONENTS USING TARGETED INDUCTIVE HEAT CONDUCTION

Title (de)
LASERSTRAHL-MSG-HYBRID-SCHWEISSVERFAHREN VON HOCHFESTEN FEINKORNBAUTEILEN UNTER ANWENDUNG EINER GEZIELTEN INDUKTIVEN WÄRMEFÜHRUNG

Title (fr)
PROCÉDÉ DE SOUDAGE HYBRIDE LASER/MIG-MAG D'ÉLÉMENTS STRUCTURAUX À GRAINS FINS ET À HAUTE RÉSISTANCE, AVEC UNE CONDUCTION THERMIQUE PAR INDUCTION CIBLÉE

Publication
EP 3500394 A1 20190626 (DE)

Application
EP 17745670 A 20170714

Priority
• DE 102016115239 A 20160817
• EP 2017067863 W 20170714

Abstract (en)
[origin: WO2018033310A1] The invention relates to a method for laser beam GMA hybrid welding for undetachably joining two or more components made of a high-strength steel, wherein the region around the joining point is inductively heated to 100 °C to 300 °C, preferably a method for defense use, wherein the region around the joining is heated up to 150 °C to a maximum of 200 °C.

IPC 8 full level
B23K 26/14 (2014.01); **B23K 9/235** (2006.01); **B23K 26/348** (2014.01); **B23K 26/70** (2014.01); **B23K 28/02** (2014.01); **B23K 103/04** (2006.01)

CPC (source: EP US)
B23K 9/164 (2013.01 - US); **B23K 9/235** (2013.01 - EP US); **B23K 26/348** (2015.10 - EP US); **B23K 26/60** (2015.10 - US); **B23K 26/70** (2015.10 - EP US); **B23K 28/02** (2013.01 - EP US); **B23K 2103/04** (2018.08 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102017115866 A1 20180222; CN 109641309 A 20190416; EP 3500394 A1 20190626; US 2019184497 A1 20190620; WO 2018033310 A1 20180222

DOCDB simple family (application)
DE 102017115866 A 20170714; CN 201780053112 A 20170714; EP 17745670 A 20170714; EP 2017067863 W 20170714; US 201716321868 A 20170714