

Title (en)
METHOD FOR PRODUCING AN OVERLAP COMPOSITE MATERIAL FROM SHEET METAL

Title (de)
VERFAHREN ZUM HERSTELLEN EINES ÜBERLAPP-VERBUNDMATERIALS AUS BLECH

Title (fr)
PROCÉDÉ DE FABRICATION D'UN MATÉRIAU COMPOSITE DE CHEVAUCHEMENT EN TÔLE

Publication
EP 3676044 A1 20200708 (DE)

Application
EP 18759303 A 20180823

Priority
• DE 102017119677 A 20170828
• EP 2018072739 W 20180823

Abstract (en)
[origin: WO2019042855A1] A method for producing an overlap composite material from sheet metal is described, wherein a first metal sheet (1) composed of a first metal and a second metal sheet (2) composed of a second metal which has a lower strength than the first metal are placed one on top of the other in overlapping fashion in an edge region and are then connected by rolling. Provision is made according to the invention for the first metal sheet (1) to have an edge which is wedge-shaped in cross section, and for the second metal sheet (2) to be placed with its edge against a side surface (3), formed by the wedge-shaped edge, of the first metal sheet (1), wherein the side surface (3) formed by the wedge-shaped edge of the first metal sheet (1) has a greater width than that side surface (4) of the edge of the second metal sheet (2) which is placed against said side surface (3) of the first metal sheet (1), and the metal sheets (1, 2) are connected by the rolling after the placing process.

IPC 8 full level
B23K 20/04 (2006.01); **B23K 20/233** (2006.01)

CPC (source: EP KR US)
B23K 20/04 (2013.01 - EP KR US); **B23K 20/2333** (2013.01 - EP KR US); **B23K 33/00** (2013.01 - EP); **B23K 33/004** (2013.01 - EP KR US); **B32B 15/013** (2013.01 - KR); **B32B 15/017** (2013.01 - EP US); **B23K 2101/185** (2018.07 - EP US); **B23K 2103/10** (2018.07 - EP US); **B23K 2103/12** (2018.07 - EP US); **B23K 2103/18** (2018.07 - EP US)

Citation (search report)
See references of WO 2019042855A1

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 102017119677 A1 20190228; CN 111050972 A 20200421; EP 3676044 A1 20200708; JP 2020531288 A 20201105; JP 6916958 B2 20210811; KR 20200020834 A 20200226; MX 2019015658 A 20200714; US 11511369 B2 20221129; US 2020189023 A1 20200618; WO 2019042855 A1 20190307

DOCDB simple family (application)
DE 102017119677 A 20170828; CN 201880055643 A 20180823; EP 18759303 A 20180823; EP 2018072739 W 20180823; JP 2020509520 A 20180823; KR 20207001567 A 20180823; MX 2019015658 A 20180823; US 202016798745 A 20200224