

Title (en)
METHOD AND ARRANGEMENT FOR PRODUCING OPEN OR CLOSED ANNULAR STRUCTURAL COMPONENTS MADE OF LIGHT METAL AND ALLOYS THEREOF, HAVING A TWO- OR THREE-DIMENSIONAL STRUCTURE

Title (de)
VERFAHREN UND ANORDNUNG ZUR HERSTELLUNG VON OFFENEN ODER GESCHLOSSENEN RINGFÖRMIGEN KONSTRUKTIONSBAUTEILEN AUS LEICHTMETALL UND DEREN LEGIERUNGEN MIT EINER ZWEI- ODER DREIDIMENSIONALEN STRUKTUR

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR LA FABRICATION DE PIÈCES DE CONSTRUCTION ANNULAIRES OUVERTES OU FERMÉES EN MÉTAL LÉGER ET LEURS ALLIAGES, PRÉSENTANT UNE STRUCTURE BIDIMENSIONNELLE OU TRIDIMENSIONNELLE

Publication
EP 3154718 A1 20170419 (DE)

Application
EP 15738238 A 20150519

Priority
• DE 102014008646 A 20140613
• DE 2015000250 W 20150519

Abstract (en)
[origin: CA2952090A1] The invention relates to a method and to an arrangement for producing open or closed annular structural components made of light metal and alloys thereof, preferably of magnesium or magnesium alloys, having a two- or three-dimensional structure by means of extrusion. The extruded profile emerging from the matrix of the extruder (3) is formed into a helix shape (9) by means of one or more guide tools (5) such that in the area of overlap, the ends of the helical shape (9) are separated from the extruder, and in a calibrating device (7), said helical shape is formed into a two- or three-dimensional structural component (10).

IPC 8 full level
B21C 23/12 (2006.01); **B21D 11/06** (2006.01)

CPC (source: CN EP KR US)
B21C 23/12 (2013.01 - CN EP KR US); **B21C 23/142** (2013.01 - US); **B21D 11/06** (2013.01 - EP KR); **B21D 53/16** (2013.01 - CN EP KR US); **B21D 11/06** (2013.01 - CN)

Citation (search report)
See references of WO 2015188801A1

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 102014008646 B3 20150924; CA 2952090 A1 20151217; CA 2952090 C 20181120; CN 106457356 A 20170222; CN 106457356 B 20191018; EP 3154718 A1 20170419; EP 3154718 B1 20201118; JP 2017518884 A 20170713; JP 6761352 B2 20200923; KR 20170018935 A 20170220; US 10589330 B2 20200317; US 2017128994 A1 20170511; WO 2015188801 A1 20151217

DOCDB simple family (application)
DE 102014008646 A 20140613; CA 2952090 A 20150519; CN 201580031662 A 20150519; DE 2015000250 W 20150519; EP 15738238 A 20150519; JP 2016572672 A 20150519; KR 20177001158 A 20150519; US 201515318604 A 20150519