

Title (en)

METHOD FOR PRODUCING SHEET METAL COMPONENTS AND DEVICE THEREFOR

Title (de)

VERFAHREN ZUM HERSTELLEN VON BLECHBAUTEILEN UND VORRICHTUNG HIERFÜR

Title (fr)

PROCÉDÉ DE FABRICATION DE PIÈCES MÉTALLIQUES EN FEUILLE ET DISPOSITIF ASSOCIÉ

Publication

EP 3565677 A1 20191113 (DE)

Application

EP 18700043 A 20180102

Priority

- DE 102017200115 A 20170105
- EP 2018050039 W 20180102

Abstract (en)

[origin: WO2018127480A1] The present invention relates to a method for producing a dimensionally stable sheet metal component (3, 3', 3''), wherein the method comprises the following steps: - preforming sheet metal (1) into a sheet metal preform (2) having at least one base region (2.1), a frame region (2.2), a transitional region (2.4) between the base region and the frame region, optionally a flange region (2.3) and a transitional region (2.5) between the frame region and the flange region, wherein at least one of the regions (2.1, 2.2, 2.3, 2.4, 2.5) has at least in parts excess material (4, M); - cutting at least in parts the sheet metal preform (2) into a cut sheet metal preform (2') having a sheet metal preform edge (2'.31); and - swaging and/or calibrating the sheet metal preform (2') which has been cut at least in parts into a substantially finished formed sheet metal component (3, 3', 3'').

IPC 8 full level

B21D 22/30 (2006.01)

CPC (source: EP US)

B21D 22/22 (2013.01 - US); **B21D 22/30** (2013.01 - EP US); **B21D 24/04** (2013.01 - US); **B21D 24/16** (2013.01 - US); **B21D 37/10** (2013.01 - 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 102017200115 A1 20180705; CN 110167690 A 20190823; EP 3565677 A1 20191113; MX 2019008069 A 20190829; US 11267032 B2 20220308; US 2020384522 A1 20201210; WO 2018127480 A1 20180712; WO 2018127480 A9 20190509

DOCDB simple family (application)

DE 102017200115 A 20170105; CN 201880005917 A 20180102; EP 18700043 A 20180102; EP 2018050039 W 20180102; MX 2019008069 A 20180102; US 201816475474 A 20180102