

Title (en)

METHOD FOR FORMING A SHEET METAL AND MANUFACTURING SYSTEM WITH CONDUCTIVE HEATING DEVICE

Title (de)

VERFAHREN ZUR UMFORMUNG EINES BLECHS- UND FERTIGUNGSANLAGE MIT KONDUKTIVER ERWÄRMUNGSEINRICHTUNG

Title (fr)

PROCÉDÉ DE FORMAGE D'UNE TÔLE ET INSTALLATION DE FABRICATION AVEC DISPOSITIF DE CHAUFFAGE PAR CONDUCTION

Publication

EP 3589756 B1 20240515 (DE)

Application

EP 18716509 A 20180301

Priority

- DE 102017104494 A 20170303
- DE 102017115900 A 20170714
- DE 102017130510 A 20171219
- EP 2018055059 W 20180301

Abstract (en)

[origin: WO2018158374A1] The invention relates to a method for shaping a metal sheet into a three-dimensional component by metal-sheet shaping, the metal sheet being conductively heated to a temperature necessary for the metal-sheet shaping by means of a conductive heating device, characterized in that the conductive heating device has at least two rotatably mounted, roller-shaped electrodes for conductively applying current to the metal sheet, the metal sheet being fed between at least two roller-shaped electrodes set into rotation and being conductively heated by means of said electrodes, and the metal sheet being fed from the conductive heating device to a pressing device, while the metal sheet is still in the heated state from the conductive heating by means of the at least two roller-shaped electrodes set into rotation, and being shaped into the three-dimensional component there by pressing, while the metal sheet is still in the heated state from the conductive heating. The invention further relates to a production system for producing three-dimensional components from metal sheet and to a conductive heating device for conductively heating a metal sheet.

IPC 8 full level

C21D 1/40 (2006.01); **C21D 1/673** (2006.01); **C21D 9/46** (2006.01); **H05B 3/00** (2006.01); **C21D 7/13** (2006.01)

CPC (source: EP)

C21D 1/40 (2013.01); **C21D 1/673** (2013.01); **C21D 9/46** (2013.01); **H05B 3/0095** (2013.01); **C21D 7/13** (2013.01)

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

DOCDB simple family (publication)

WO 2018158374 A1 20180907; EP 3589756 A1 20200108; EP 3589756 B1 20240515

DOCDB simple family (application)

EP 2018055059 W 20180301; EP 18716509 A 20180301