

Title (en)

METHOD USING A MANUFACTURING DEVICE FOR SHAPING SHEET METAL

Title (de)

VERFAHREN MIT EINER FERTIGUNGSEINRICHTUNG ZUM UMFORMEN VON BLECH

Title (fr)

PROCÉDÉ METTANT EN ?UVRE UNE INSTALLATION DE PRODUCTION PERMETTANT LE FORMAGE D'UNE TÔLE

Publication

**EP 3790678 A1 20210317 (DE)**

Application

**EP 19731869 A 20190506**

Priority

- AT 503782018 A 20180507
- AT 2019060151 W 20190506

Abstract (en)

[origin: WO2019213680A1] The invention relates to a method for producing a component by shaping a workpiece (5) made of sheet metal using a manufacturing device (1) comprising bending tools (6, 7) fastened to crossheads (2, 3) and comprising a control means (10) having a manufacturing program (14) for semi-automatic operation of the manufacturing device (1), at least two manufacturing steps (F1, F2) being performed, each comprising shaping by means of bending, and a manufacturing step (F1, F2) comprising: positioning stops (8, 9) for orienting the workpiece (5); placement of the workpiece (5) in the working region (16) by an operator; performing the shaping by means of bending; moving the crossheads (2, 3) away from one another and removal of the workpiece (5) by the operator. After a first manufacturing step (F1), execution of a subsequent second manufacturing step (F2) of the manufacturing program (14) is started, by the working region (16) being captured by a camera (17, 18) and the position and orientation of the workpiece (5) being determined by an image recognition program (15) and, based on the position of the workpiece (5) determined by the image recognition program (15), the subsequent second manufacturing step (F2) being started by the manufacturing program (14).

IPC 8 full level

**B21D 5/00** (2006.01); **B21D 5/02** (2006.01); **B21D 43/26** (2006.01); **B21D 55/00** (2006.01)

CPC (source: AT EP)

**B21D 5/002** (2013.01 - AT EP); **B21D 5/02** (2013.01 - EP); **B21D 43/003** (2013.01 - AT); **B21D 43/26** (2013.01 - EP); **B21D 55/00** (2013.01 - EP)

Citation (search report)

See references of WO 2019213680A1

Cited by

CN117340101A

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)

**WO 2019213680 A1 20191114**; AT 520649 A4 20190615; AT 520649 B1 20190615; CN 112088053 A 20201215; CN 112088053 B 20220812; EP 3790678 A1 20210317; EP 3790678 B1 20220316

DOCDB simple family (application)

**AT 2019060151 W 20190506**; AT 503782018 A 20180507; CN 201980030597 A 20190506; EP 19731869 A 20190506