

Title (en)

METHOD FOR PRODUCING A BENT PART AND BENDING MACHINE FOR PERFORMING THE METHOD

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BIEGETEILS UND BIEGEMASCHINE ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)

PROCÉDÉ DE FABRICATION D'UNE PIÈCE PLIÉE ET MACHINE DE PLIAGE POUR LA MISE EN OEUVRE DU PROCÉDÉ

Publication

EP 3645188 B1 20210929 (DE)

Application

EP 18733542 A 20180614

Priority

- DE 102017210714 A 20170626
- EP 2018065864 W 20180614

Abstract (en)

[origin: WO2019001982A1] In a method for producing a bent part from an elongate workpiece, more particularly from a wire or tube made of round, flat or profiled material, by means of a bending machine, the workpiece is fed to a bending unit of the bending machine, wherein the bending unit has a bending head (180) that can be moved by means of a Z drive parallel to a bending head axis (185) and has a bending tool (184) that can be rotated about a bending axis by means of a bending drive. A fed section of the workpiece is shaped by means of working movements of the bending head into a two-dimensionally or three-dimensionally bent part. The finished bent part is separated from the fed workpiece material in a cutting operation by means of a cutting device (150) that is separate from the bending head. The cutting device (150) is actuated by a working movement of the bending head (180) parallel to the bending head axis (185) or a rotary movement of the bending tool (184) about the bending axis by means of a transmitting device (250). For this purpose a movable component (160) of the cutting device (150) is coupled by means of a transmitting device (250) to the Z drive or bending drive on the bending machine to transmit forces and torques such that the cutting device can be actuated via the coupled drive. This eliminates the need for a separate drive for the cutting device (150).

IPC 8 full level

B21D 11/12 (2006.01); **B21F 1/00** (2006.01); **B21F 11/00** (2006.01)

CPC (source: EP US)

B21D 7/02 (2013.01 - EP US); **B21D 7/16** (2013.01 - EP); **B21F 1/006** (2013.01 - EP US); **B21F 11/00** (2013.01 - EP)

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)

DE 102017210714 A1 20181227; CN 110958919 A 20200403; CN 110958919 B 20221004; EP 3645188 A1 20200506; EP 3645188 B1 20210929; US 11179760 B2 20211123; US 2020130038 A1 20200430; WO 2019001982 A1 20190103

DOCDB simple family (application)

DE 102017210714 A 20170626; CN 201880055540 A 20180614; EP 18733542 A 20180614; EP 2018065864 W 20180614; US 201816626806 A 20180614