

Title (en)
MULTISTAGE PRESS AND METHOD FOR PRODUCING A FORMED PART

Title (de)
MEHRSTUFENPRESSE UND VERFAHREN ZUR HERSTELLUNG EINES UMFORMTEILS

Title (fr)
PRESSE MULTI-ÉTAPE ET PROCÉDÉ DE FABRICATION D'UN ÉLÉMENT OBTENU PAR FORMAGE

Publication
EP 3700692 B1 20211110 (DE)

Application
EP 17816709 A 20171212

Priority
EP 2017082318 W 20171212

Abstract (en)
[origin: WO2019114929A1] The invention relates to a multistage press for the bulk deformation of a piece of wire, comprising a wire feed with associated apparatus for cutting to length, and a transfer device – having grippers – for receiving a piece of wire that has been cut to length and transferring the latter to subsequent forming stages, there being arranged, on that side of the cutting-to-length apparatus (3) opposite from the wire feed (2), means for partially heating a length of wire (81). The invention also relates to a method for producing a formed part with a multistage press of this type.

IPC 8 full level
B21F 3/02 (2006.01); **B21F 5/00** (2006.01); **B21F 11/00** (2006.01); **B21J 1/06** (2006.01); **B21J 9/02** (2006.01); **B21K 1/56** (2006.01); **B21K 27/04** (2006.01); **B21K 27/06** (2006.01); **B21K 29/00** (2006.01)

CPC (source: EP KR RU US)
B21F 5/005 (2013.01 - EP KR); **B21F 23/005** (2013.01 - US); **B21F 45/00** (2013.01 - RU); **B21J 1/06** (2013.01 - EP KR); **B21J 9/02** (2013.01 - RU); **B21J 9/022** (2013.01 - EP KR); **B21K 1/56** (2013.01 - EP KR US); **B21K 27/00** (2013.01 - RU); **B21K 27/04** (2013.01 - EP KR US); **B21K 27/06** (2013.01 - EP KR); **B21K 29/00** (2013.01 - EP KR); **B21F 5/005** (2013.01 - US); **B21F 11/00** (2013.01 - US); **B21J 1/06** (2013.01 - US); **B21K 27/06** (2013.01 - US); **B21K 29/00** (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

DOCDB simple family (publication)
WO 2019114929 A1 20190620; BR 112020011149 A2 20201117; CA 3084234 A1 20190620; CN 111886086 A 20201103; CN 111886086 B 20220729; EP 3700692 A1 20200902; EP 3700692 B1 20211110; ES 2903138 T3 20220331; JP 2021505408 A 20210218; JP 7021367 B2 20220216; KR 102463749 B1 20221103; KR 20200094151 A 20200806; PL 3700692 T3 20220207; RU 2741761 C1 20210128; US 11285526 B2 20220329; US 2020298301 A1 20200924

DOCDB simple family (application)
EP 2017082318 W 20171212; BR 112020011149 A 20171212; CA 3084234 A 20171212; CN 201780097680 A 20171212; EP 17816709 A 20171212; ES 17816709 T 20171212; JP 2020552096 A 20171212; KR 20207015748 A 20171212; PL 17816709 T 20171212; RU 2020118872 A 20171212; US 201716767709 A 20171212