

Title (en)
APPARATUS AND PROCESS FOR SHAPING AND/OR HARDENING SHEET METAL COMPONENTS

Title (de)
VORRICHTUNG UND VERFAHREN ZUM FORMEN UND/ODER HÄRTEN VON BLECHBAUTEILEN

Title (fr)
DISPOSITIF ET PROCÉDÉ POUR LE FORMAGE ET/OU LE DURCISSEMENT DE PIÈCES EN TÔLE

Publication
EP 2547468 B1 20190724 (DE)

Application
EP 11701484 A 20110117

Priority
• DE 202010003605 U 20100315
• EP 2011050516 W 20110117

Abstract (en)
[origin: WO2011113621A1] The invention relates to an apparatus for shaping and/or hardening sheet metal components, wherein the apparatus has a sliding tool (8, 8a, 8b) that can be displaced towards a metal sheet to be formed, wherein the sliding tool (8, 8a, 8b) is arranged on a movable wedge drive part (3), wherein there are bores (9, 10) and/or channels and/or grooves (13) in the sliding tool (8, 8a, 8b) for receiving and conducting cooling liquid, and also to a process for shaping and/or hardening sheet metal components, wherein, in order to produce undercuts in a metal sheet to be formed, a sliding tool (8, 8a, 8b) acts on the metal sheet and the metal sheet (9, 10) is formed, wherein the sliding tool (8, 8a, 8b) is cooled by means of cooling liquid during the forming or before or after the forming by means of bores (9, 10) and/or channels and/or grooves (13).

IPC 8 full level
B21D 37/16 (2006.01)

CPC (source: EP)
B21D 28/325 (2013.01); **B21D 37/12** (2013.01); **B21D 37/16** (2013.01); **C21D 1/673** (2013.01)

Cited by
CN110369619A

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 202010003605 U1 20100708; EP 2547468 A1 20130123; EP 2547468 B1 20190724; ES 2746038 T3 20200304;
WO 2011113621 A1 20110922

DOCDB simple family (application)
DE 202010003605 U 20100315; EP 11701484 A 20110117; EP 2011050516 W 20110117; ES 11701484 T 20110117