

Title (en)  
SEGMENTED PRESS-HARDENING TOOL

Title (de)  
SEGMENTIERTES PRESSHÄRTEWERKZEUG

Title (fr)  
MOULE SEGMENTÉ DE TREMPÉ À LA PRESSE

Publication  
**EP 2736661 A1 20140604 (DE)**

Application  
**EP 12741248 A 20120723**

Priority  
• DE 102011108912 A 20110728  
• EP 2012003096 W 20120723

Abstract (en)  
[origin: WO2013013803A1] The invention relates to a press-hardening tool (100) for producing hardened shaped sheet metal parts from a sheet steel material (400), comprising at least two tool parts which are movable in relation to each other in a working direction (D) and between which, under application of a pressure force (F) acting in the working direction (D), a heated sheet steel material (400) can be shaped and cooled and in the process hardened. It is provided that at least one of the tool parts (220) is formed in a segmented manner and has at least a first segment (221) having a shaped section extending transversely to the working direction (D) and at least a second segment (223) having a shaped section extending steeply with respect to the working direction (D), wherein the first segment (221) is arranged in a movable manner on the relevant tool part (220) and, when a particular pressure force (F) is exceeded, can yield (A) counter to the pressure force (F) applied, in order as a result to allow continued moving together of the tool parts and associated intensified pressing (B, C) of the second segment (223) against the sheet steel material (400).

IPC 8 full level  
**B21D 22/02** (2006.01); **B21D 22/06** (2006.01); **B21D 22/20** (2006.01); **B21D 37/16** (2006.01); **C21D 1/673** (2006.01); **C21D 9/48** (2006.01)

CPC (source: EP)  
**B21D 22/022** (2013.01); **B21D 22/06** (2013.01); **B21D 22/208** (2013.01); **B21D 37/16** (2013.01); **C21D 1/673** (2013.01)

Citation (search report)  
See references of WO 2013013803A1

Cited by  
DE102015215184A1; DE102015215184B4

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 102011108912 A1 20130131**; CN 103702781 A 20140402; CN 103702781 B 20160120; EP 2736661 A1 20140604;  
EP 2736661 B1 20150513; WO 2013013803 A1 20130131

DOCDB simple family (application)  
**DE 102011108912 A 20110728**; CN 201280036969 A 20120723; EP 12741248 A 20120723; EP 2012003096 W 20120723