

Title (en)
METHOD FOR RESHAPING METAL BLANKS MADE OF SUPERIOR AND SUPREME HARDNESS STEELS

Title (de)
VERFAHREN ZUM UMFORMEN VON PLATINEN AUS HÖHER- UND HÖCHSTFESTEN STÄHLEN

Title (fr)
PROCÉDÉ DE FACONNAGE DE PLATINES EN ACIERS À RÉSISTANCE ÉLEVÉE ET TRÈS ÉLEVÉE

Publication
EP 2012948 A1 20090114 (DE)

Application
EP 07728442 A 20070424

Priority
• EP 2007053986 W 20070424
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Abstract (en)
[origin: US2009178740A1] A forming tool and a method for the press-hardening and tempered forming of a blank from high and/or very high strength steels are provided, in which the blank is heated before the tempered forming and then formed hot or semi-hot in a forming tool, wherein the forming tool has means for tempering. This is achieved in that the forming tool makes precisely defined temperature guidance of the blank during forming, and in that a plurality of controllable means are provided in the forming tool for tempering the forming tool, by which a plurality of temperature zones can be tempered in the forming tool, wherein at least contact surfaces of forming tool elements used for the tempered forming are allocated to individual temperature zones.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 2007122230A1

Cited by
DE102012104734A1; DE102010048209C5; CN112371820A; US10532395B2; US9340233B2; EP2497840A1; WO2012120123A1

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US 2009178740 A1 20090716; US 9068239 B2 20150630; AT E442213 T1 20090915; BR PI0710175 A2 20110816; CA 2649519 A1 20071101; CA 2649519 C 20140520; DE 102006019395 A1 20071025; DE 502007001501 D1 20091022; EP 2012948 A1 20090114; EP 2012948 B1 20090909; ES 2333274 T3 20100218; JP 2009534196 A 20090924; JP 5270535 B2 20130821; MX 2008013630 A 20081110; PL 2012948 T3 20100531; PT 2012948 E 20091210; WO 2007122230 A1 20071101

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