

Title (en)

Method for moulding and hardening a workpiece made from steel in a stamping machine

Title (de)

Verfahren zum Pressformen und Härten eines Werkstücks aus Stahl in einer Gesenkpresse

Title (fr)

Procédé de moulage et de durcissement d'une pièce à usiner en acier dans une presse à estamper

Publication

**EP 1983063 B1 20130109 (DE)**

Application

**EP 08005252 A 20080320**

Priority

DE 102007019173 A 20070420

Abstract (en)

[origin: DE102007019173B3] Method for press-forming and hardening a steel workpiece in a stamping machine comprises partially moving the stamps (2, 3) away from each other after deforming and passing coolant (6) through the gap (10, 11) between the stamps and the workpiece. The heated workpiece is placed into the molding hollow space (9) above the coolant meniscus (8). The coolant meniscus is raised high enough for the coolant to flow into the hollow space.

IPC 8 full level

**C21D 1/673** (2006.01); **B21D 22/02** (2006.01); **C21D 1/63** (2006.01); **C21D 9/42** (2006.01)

CPC (source: EP)

**B21D 22/022** (2013.01); **B21D 37/16** (2013.01); **C21D 1/63** (2013.01); **C21D 1/673** (2013.01); **C21D 9/42** (2013.01); **C21D 1/02** (2013.01)

Cited by

CN114101416A; CN109517950A; WO2010061007A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 102007019173 B3 20080529**; BR PI0801178 A2 20081202; EP 1983063 A2 20081022; EP 1983063 A3 20111019; EP 1983063 B1 20130109; MX 2008004916 A 20090302

DOCDB simple family (application)

**DE 102007019173 A 20070420**; BR PI0801178 A 20080416; EP 08005252 A 20080320; MX 2008004916 A 20080415