

Title (en)  
PRODUCTION METHOD FOR MANUFACTURING PRESS-HARDENED COMPONENTS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON PRESSGEHÄRTETEN BAUTEILEN

Title (fr)  
PROCÉDÉ DE FABRICATION DES ÉLÉMENTS TREMPÉS À LA PRESSE

Publication  
**EP 1646458 B1 20160406 (DE)**

Application  
**EP 04739467 A 20040529**

Priority  
• EP 2004005855 W 20040529  
• DE 10333165 A 20030722

Abstract (en)  
[origin: DE10333165A1] Production of press-quenched components, especially chassis parts, made from a semi-finished product (2) made from unhardened hot deformed sheet steel comprises molding a component blank (10) from the semi-finished product by cold drawing, especially drawing, cutting the blank on an edge contour (12') closely corresponding to the component (1) being produced, heating the cut blank and press-quenching in a hot deforming tool, and coating with a corrosion-protection layer. An independent claim is also included for a press-quenched component produced by the above process.

IPC 8 full level  
**B21D 35/00** (2006.01); **B21D 53/88** (2006.01); **C21D 1/673** (2006.01); **C21D 9/00** (2006.01); **C23C 2/00** (2006.01); **C23C 2/02** (2006.01); **C23C 2/26** (2006.01); **C23C 10/02** (2006.01); **C23C 28/04** (2006.01); **C21D 1/18** (2006.01)

CPC (source: EP US)  
**B21D 35/00** (2013.01 - EP US); **C21D 1/673** (2013.01 - EP US); **C21D 9/0068** (2013.01 - EP US); **C23C 2/00** (2013.01 - EP US); **C23C 2/02** (2013.01 - EP US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/024** (2022.08 - EP US); **C23C 2/26** (2013.01 - EP US); **C23C 10/02** (2013.01 - EP US); **C23C 30/00** (2013.01 - EP US); **C21D 1/18** (2013.01 - EP US); **Y10S 29/049** (2013.01 - EP US); **Y10T 29/49622** (2015.01 - EP US); **Y10T 29/49982** (2015.01 - EP US); **Y10T 29/49986** (2015.01 - EP US); **Y10T 29/49995** (2015.01 - EP US)

Cited by  
WO2018078484A1; DE102018114838A1; WO2019242818A1

Designated contracting state (EPC)  
DE FR GB IT SE

DOCDB simple family (publication)  
**DE 10333165 A1 20050224**; EP 1646458 A1 20060419; EP 1646458 B1 20160406; JP 2007500782 A 20070118; US 2006219334 A1 20061005; US 2012137502 A1 20120607; US 8141230 B2 20120327; WO 2005018848 A1 20050303; ZA 200600593 B 20090826

DOCDB simple family (application)  
**DE 10333165 A 20030722**; EP 04739467 A 20040529; EP 2004005855 W 20040529; JP 2006520680 A 20040529; US 201213371610 A 20120213; US 56522904 A 20040529; ZA 200600593 A 20060120