

Title (en)

METHOD OF MANUFACTURING HOT PRESS-FORMED PART, AND HOT PRESS-FORMED PART

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HEISSPRESSGEFORMTEN TEILS UND HEISSPRESSGEFORMTES TEIL

Title (fr)

PROCÉDÉ DE FABRICATION DE PRODUIT FORMÉ À LA PRESSE À CHAUD, ET PRODUIT FORMÉ À LA PRESSE À CHAUD

Publication

EP 3199257 A4 20171206 (EN)

Application

EP 15843885 A 20150907

Priority

- JP 2014195530 A 20140925
- JP 2015004533 W 20150907

Abstract (en)

[origin: EP3199257A1] A method of manufacturing a hot press-formed part by hot pressing a coated steel sheet formed with a Zn-Ni plating layer on a surface of a steel sheet includes: heating the coated steel sheet to a temperature range of Ac 3 transformation temperature to 1000°C; cooling the coated steel sheet to 550-410°C at a cooling rate of 100°C/s or higher by squeezing the coated steel sheet with a press tool for cooling having flat surfaces configured to contact the coated steel sheet; press forming the coated steel sheet with a tool of press forming to obtain a formed body, the press forming being initiated within 5 seconds after the cooling while the temperature of the coated steel sheet is 550-400°C; and quenching the formed body, while squeezing the formed body with the tool of press forming and holding at its press bottom dead center, to obtain a hot press-formed part.

IPC 8 full level

B21D 22/20 (2006.01); **B21D 24/00** (2006.01); **C23C 30/00** (2006.01); **C25D 5/26** (2006.01)

CPC (source: EP KR US)

B21D 22/20 (2013.01 - EP US); **B21D 22/201** (2013.01 - KR US); **B21D 22/208** (2013.01 - KR US); **B21D 24/00** (2013.01 - EP KR US); **B21D 37/16** (2013.01 - KR); **C21D 1/673** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP US); **C22C 18/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/60** (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 2/06** (2013.01 - KR US); **C23C 2/26** (2013.01 - EP KR US); **C23C 30/00** (2013.01 - EP KR US); **C23F 17/00** (2013.01 - KR US); **C25D 3/565** (2013.01 - KR); **C25D 5/48** (2013.01 - KR)

Citation (search report)

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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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3199257 A1 20170802; **EP 3199257 A4 20171206**; **EP 3199257 B1 20210224**; CN 106714996 A 20170524; CN 106714996 B 20190705; JP 2016064440 A 20160428; JP 6152836 B2 20170628; KR 20170036086 A 20170331; MX 2017003875 A 20170608; US 2017225215 A1 20170810; WO 2016047058 A1 20160331; WO 2016047058 A8 20170119

DOCDB simple family (application)

EP 15843885 A 20150907; CN 201580049874 A 20150907; JP 2014195530 A 20140925; JP 2015004533 W 20150907; KR 20177005467 A 20150907; MX 2017003875 A 20150907; US 201515502614 A 20150907