

Title (en)

METHOD FOR PRODUCING HOT-PRESSED MEMBER

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HEISSGEPRESSTEN ELEMENTS

Title (fr)

PROCÉDÉ POUR LA PRODUCTION D'ÉLÉMENT FORMÉ À LA PRESSE À CHAUD

Publication

EP 3330016 A1 20180606 (EN)

Application

EP 16830013 A 20160705

Priority

- JP 2015149092 A 20150729
- JP 2016029871 A 20160219
- JP 2016003196 W 20160705

Abstract (en)

Provided is a method for manufacturing a hot-pressed member excellent in terms of surface appearance with which it is possible to stably manufacture a hot-pressed member having a homogeneous and good surface appearance without causing a significant increase in cost. A method for manufacturing a hot-pressed member includes heating a zinc-based coated steel sheet to a temperature range from the Ac3 transformation temperature to 1000°C, performing hot pressing work, and performing cooling, in which a surface-cleaning treatment is performed on the zinc-based coated steel sheet before the heating is performed. A method for manufacturing a hot-pressed member includes performing cold pressing work on a zinc-based coated steel sheet, heating the zinc-based coated steel sheet to a temperature range from the Ac3 transformation temperature to 1000°C, and cooling the heated steel sheet, in which a surface-cleaning treatment is performed on the zinc-based coated steel sheet before the heating is performed. It is preferable that the zinc-based coated steel sheet be a Zn-Ni-alloy-coated steel sheet having a coating layer on one or both sides of the Zn-Ni-alloy-coated steel sheet, and the coating layer have a chemical composition containing 10 mass% to 25 mass% of Ni and the balance being Zn and inevitable impurities and a coating weight per side of 10 g/m² to 90 g/m².

IPC 8 full level

B21D 22/20 (2006.01); **B21D 22/26** (2006.01); **C23C 2/06** (2006.01); **C23C 2/26** (2006.01); **C23C 2/40** (2006.01); **C25D 5/26** (2006.01); **C25D 5/48** (2006.01)

CPC (source: EP KR US)

B21D 22/20 (2013.01 - EP US); **B21D 22/208** (2013.01 - KR); **B21D 22/26** (2013.01 - EP KR US); **C21D 8/0278** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR US); **C22C 18/00** (2013.01 - EP KR US); **C23C 2/06** (2013.01 - EP KR US); **C23C 2/26** (2013.01 - EP KR US); **C23C 2/40** (2013.01 - EP KR US); **C23F 17/00** (2013.01 - KR US); **C25D 3/22** (2013.01 - KR); **C25D 5/48** (2013.01 - EP US); **C25D 5/50** (2013.01 - KR US); **B21D 53/88** (2013.01 - 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 38/28** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US); **C25D 3/22** (2013.01 - US)

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 3330016 A1 20180606; **EP 3330016 A4 20180627**; **EP 3330016 B1 20230906**; CN 107921509 A 20180417; JP 6409878 B2 20181024; JP WO2017017905 A1 20170727; KR 102050175 B1 20191128; KR 20180021125 A 20180228; MX 2018001125 A 20180523; US 2018216219 A1 20180802; WO 2017017905 A1 20170202

DOCDB simple family (application)

EP 16830013 A 20160705; CN 201680044284 A 20160705; JP 2016003196 W 20160705; JP 2016562278 A 20160705; KR 20187002274 A 20160705; MX 2018001125 A 20160705; US 201615747880 A 20160705