

Title (en)
PLATED STEEL SHEET FOR HOT PRESSING, METHOD FOR MANUFACTURING PLATED STEEL SHEET FOR HOT PRESSING, METHOD FOR MANUFACTURING HOT-PRESS-FORMED ARTICLE, AND METHOD FOR MANUFACTURING VEHICLE

Title (de)
PLATTIERTES STAHLBLECH ZUM HEISSPRESSEN, VERFAHREN ZUR HERSTELLUNG EINES PLATTIERTEN STAHLBLECHS ZUM HEISSPRESSEN, VERFAHREN ZUR HERSTELLUNG EINES HEISSPRESSGEFORMTEN ARTIKELS UND VERFAHREN ZUR HERSTELLUNG EINES FAHRZEUGS

Title (fr)
TÔLE D'ACIER PLAQUÉE POUR FORMAGE À CHAUD À LA PRESSE, SON PROCÉDÉ DE FABRICATION, PROCÉDÉ DE FABRICATION D'UN ARTICLE FORMÉ À CHAUD À LA PRESSE ET PROCÉDÉ DE FABRICATION DE VÉHICULE

Publication
EP 3564409 A4 20200101 (EN)

Application
EP 17886827 A 20171221

Priority
• JP 2016256016 A 20161228
• JP 2017046035 W 20171221

Abstract (en)
[origin: EP3564409A1] Provided are a plated steel sheet for hot stamping including: a plated steel sheet body including a steel sheet and an aluminum plating layer provided on one side or both sides of the steel sheet; and a zinc-based metal soap film provided on a surface of the plated steel sheet body on a side of the aluminum plating layer and having an adhesion amount of from 7.1 to 19.8 g/m² based on a Zn amount (when, in the plated steel sheet body, a zinc oxide film is on the surface of an aluminum plating layer, the total adhesion amount of the zinc oxide film and the zinc-based metal soap film is from 7.1 to 19.8 g/m² based on a Zn amount.), and a method of manufacturing such a sheet. Also provided are a method of manufacturing a hot-stamped component using the plated steel sheet for hot stamping, and a method of manufacturing a vehicle using a stamped component manufactured by a method of manufacturing a hot-stamped component.

IPC 8 full level
C23C 2/12 (2006.01); **B21D 22/20** (2006.01); **B21D 22/26** (2006.01); **C21D 1/18** (2006.01); **C21D 9/00** (2006.01); **C22C 38/14** (2006.01); **C23C 26/00** (2006.01); **C23C 28/00** (2006.01)

CPC (source: EP KR RU US)
B21D 22/00 (2013.01 - US); **B21D 22/022** (2013.01 - KR); **B21D 22/20** (2013.01 - EP RU); **B21D 22/208** (2013.01 - KR); **B21D 22/26** (2013.01 - EP KR); **C21D 1/18** (2013.01 - EP KR); **C21D 9/00** (2013.01 - EP); **C21D 9/52** (2013.01 - KR); **C22C 21/02** (2013.01 - KR); **C22C 38/00** (2013.01 - EP US); **C23C 2/06** (2013.01 - US); **C23C 2/12** (2013.01 - EP KR US); **C23C 2/26** (2013.01 - EP KR RU US); **C23C 2/28** (2013.01 - EP RU US); **C23C 2/29** (2022.08 - EP KR RU US); **C23C 2/40** (2013.01 - EP KR); **C23C 18/1216** (2013.01 - KR); **C23C 22/66** (2013.01 - US); **C23C 28/00** (2013.01 - RU); **C23C 28/025** (2013.01 - US); **C23C 28/321** (2013.01 - EP KR); **C23C 28/34** (2013.01 - KR); **C23C 28/345** (2013.01 - EP KR)

Citation (search report)
• [A] JP 3277870 B2 20020422
• [A] JP 2010018829 A 20100128 - SUMITOMO METAL IND, et al
• [A] JP 2012219365 A 20121112 - KOBE STEEL LTD

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 3564409 A1 20191106; **EP 3564409 A4 20200101**; BR 112019013257 A2 20191224; CA 3048362 A1 20180705; CA 3048362 C 20200505; CN 110114510 A 20190809; CN 110114510 B 20200609; JP 6369659 B1 20180808; JP WO2018123831 A1 20181227; KR 102037085 B1 20191030; KR 20190085137 A 20190717; MX 2019007700 A 20190913; RU 2710396 C1 20191226; US 2020024748 A1 20200123; WO 2018123831 A1 20180705

DOCDB simple family (application)
EP 17886827 A 20171221; BR 112019013257 A 20171221; CA 3048362 A 20171221; CN 201780080183 A 20171221; JP 2017046035 W 20171221; JP 2018518669 A 20171221; KR 20197018677 A 20171221; MX 2019007700 A 20171221; RU 2019123276 A 20171221; US 201716474512 A 20171221