

Title (en)
CHEMICAL CONVERSION TREATED STEEL PLATE, AND METHOD FOR PRODUCING CHEMICAL CONVERSION TREATED STEEL PLATE

Title (de)
MITTELS CHEMISCHER UMWANDLUNG BEHANDELTE STAHLPLATTE UND VERFAHREN ZUR HERSTELLUNG EINER MITTELS
CHEMISCHER UMWANDLUNG BEHANDELTEN STAHLPLATTE

Title (fr)
PLAQUE D'ACIER TRAITÉE PAR CONVERSION CHIMIQUE ET PROCÉDÉ DE PRODUCTION D'UNE PLAQUE D'ACIER TRAITÉE PAR
CONVERSION CHIMIQUE

Publication
EP 3434813 A4 20191113 (EN)

Application
EP 16895336 A 20160322

Priority
JP 2016058899 W 20160322

Abstract (en)
[origin: EP3434813A1] A chemical treatment steel sheet contains: a steel sheet; a plated layer containing Ni and formed on at least one surface of the steel sheet; a chemical treatment layer containing a Zr compound in which an amount of Zr contained therein is 1.0 to 150 mg/m², a phosphate compound in which an amount of P contained therein is 1.0 to 100 mg/m², and an Al compound in which an amount of Al contained therein is 0.10 to 30.0 mg/m². The plated layer is a Ni-plated layer containing Ni in which an amount of Ni contained therein is 5.0 to 3000 mg/m² or a composite plated layer containing Ni in which an amount of Ni contained therein is 2.0 to 200 mg/m² and Sn in which an amount of Sn contained therein is 0.10 to 10.0 g/m² and having an island-shaped Sn-plated layer formed on a Fe-Ni-Sn alloy layer.

IPC 8 full level
C23C 22/36 (2006.01); **C23C 28/00** (2006.01); **C25D 5/12** (2006.01); **C25D 5/48** (2006.01); **C25D 9/08** (2006.01); **C25D 9/10** (2006.01); **C25D 11/36** (2006.01)

CPC (source: EP KR US)
C23C 22/20 (2013.01 - KR); **C23C 22/361** (2013.01 - EP KR); **C23C 28/00** (2013.01 - EP US); **C23C 28/321** (2013.01 - KR US); **C23C 28/34** (2013.01 - KR); **C23C 28/345** (2013.01 - US); **C25D 3/562** (2013.01 - US); **C25D 5/12** (2013.01 - EP US); **C25D 5/48** (2013.01 - EP US); **C25D 5/505** (2013.01 - EP); **C25D 7/0614** (2013.01 - EP); **C25D 9/08** (2013.01 - EP); **C25D 9/10** (2013.01 - EP); **C25D 11/36** (2013.01 - EP US); **C23C 22/20** (2013.01 - EP)

Citation (search report)
• [A] EP 2589685 A1 20130508 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
• [A] US 2008063896 A1 20080313 - FUJIBAYASHI NOBUE [JP], et al
• [A] US 2013216714 A1 20130822 - SUZUKI TAKESHI [JP], et al
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WO2021116320A1

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DOCDB simple family (publication)
EP 3434813 A1 20190130; EP 3434813 A4 20191113; CN 108779570 A 20181109; JP 6583538 B2 20191002; JP WO2017163298 A1 20190131; KR 20180112029 A 20181011; US 2020123663 A1 20200423; WO 2017163298 A1 20170928

DOCDB simple family (application)
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