

Title (en)
STEEL SHEET AND MANUFACTURING METHOD

Title (de)
STAHLBLECH UND HERSTELLUNGSVERFAHREN

Title (fr)
TÔLE D'ACIER ET PROCÉDÉ DE FABRICATION

Publication
EP 3312299 A1 20180425 (EN)

Application
EP 16811762 A 20160617

Priority
• JP 2015122260 A 20150617
• JP 2016068169 W 20160617

Abstract (en)
A steel plate improved in formability and wear resistance, having a predetermined chemical composition, having a metal structure of the steel plate having a ratio of number of carbides at ferrite grain boundaries with respect to a number of carbides in ferrite grains of over 1 and having a ferrite grain size of 5 μm to 50 μm , and having a Vickers hardness of steel plate of 100HV to 170HV.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C22C 38/06** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)
C21D 1/32 (2013.01 - EP US); **C21D 1/84** (2013.01 - EP US); **C21D 8/0226** (2013.01 - KR); **C21D 8/0257** (2013.01 - KR); **C21D 8/0263** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/00** (2013.01 - US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - KR); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/14** (2013.01 - KR); **C22C 38/60** (2013.01 - US); **C23G 1/08** (2013.01 - KR); **C21D 1/76** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP KR US); **C21D 2211/009** (2013.01 - KR); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US)

Cited by
RU2758716C1

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 3312299 A1 20180425; **EP 3312299 A4 20181205**; BR 112017025756 A2 20180814; CN 107735505 A 20180223; CN 107735505 B 20191018; JP 6206601 B2 20171004; JP WO2016204288 A1 20170629; KR 101997382 B1 20190708; KR 20180004262 A 20180110; MX 2017015266 A 20180219; TW 201708564 A 20170301; TW I588270 B 20170621; US 2018171445 A1 20180621; WO 2016204288 A1 20161222

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