

Title (en)
STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)
STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 3305929 A1 20180411 (EN)

Application
EP 16800074 A 20160525

Priority
• JP 2015106745 A 20150526
• JP 2016065509 W 20160525

Abstract (en)
Low carbon steel plate excellent impact resistance characteristics after carburizing and quenching and after tempering, characterized by having a predetermined chemical composition, an average grain size of carbides of 0.4 μm to 2.0 μm, an area ratio of pearlite of 6% or less, a ratio of a number of carbides at the ferrite grain boundaries to the number of carbides inside the ferrite grains of over 1, and a Vickers hardness of 100HV to 180HV.

IPC 8 full level
C21D 8/02 (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR US)
C21D 8/0205 (2013.01 - EP US); **C21D 8/0226** (2013.01 - KR); **C21D 8/0263** (2013.01 - KR); **C21D 8/0463** (2013.01 - EP US); **C21D 9/46** (2013.01 - EP KR 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 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/22** (2013.01 - KR); **C22C 38/28** (2013.01 - KR); **C22C 38/32** (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 38/54** (2013.01 - EP US); **C22C 38/60** (2013.01 - EP US); **C23G 1/08** (2013.01 - KR); **C21D 2211/005** (2013.01 - 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

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EP 3305929 A1 20180411; **EP 3305929 A4 20181121**; **EP 3305929 A9 20190717**; BR 112017024692 A2 20180724; CN 107614727 A 20180119; CN 107614727 B 20200114; JP 6119923 B1 20170426; JP WO2016190370 A1 20170615; KR 102029565 B1 20191007; KR 20170138508 A 20171215; MX 2017015016 A 20180413; TW 201708569 A 20170301; TW I604071 B 20171101; US 2018230582 A1 20180816; WO 2016190370 A1 20161201

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