

Title (en)
STEEL PLATE AND METHOD FOR MANUFACTURING SAME

Title (de)
STAHLPLATTE UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER, ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication
EP 3686306 A4 20200729 (EN)

Application
EP 18858881 A 20180913

Priority
• JP 2017180589 A 20170920
• JP 2018034011 W 20180913

Abstract (en)
[origin: EP3686306A1] Provided is high-Mn steel excellent in corrosion resistance, in particular corrosion resistance in a salinity corrosive environment, the high-Mn steel including a chemical composition containing C: 0.20 % or more and 0.70 % or less, Si: 0.05 % or more and 1.00 % or less, Mn: 15.0 % or more and 35.0 % or less, P: 0.030 % or less, S: 0.0200 % or less, Al: 0.010 % or more and 0.100 % or less, Cr: 0.5 % or more and 8.0 % or less, and N: 0.0010 % or more and 0.0300 % or less, with the balance being Fe and inevitable impurities, in which at least 60 % of the contained Cr is solute Cr.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 8/02** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/38** (2006.01); **C22C 38/40** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)
C21D 8/02 (2013.01 - EP); **C21D 8/0205** (2013.01 - KR); **C21D 8/0226** (2013.01 - KR); **C21D 8/0263** (2013.01 - KR); **C21D 8/0273** (2013.01 - KR); **C22C 38/001** (2013.01 - KR); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/38** (2013.01 - EP KR); **C22C 38/40** (2013.01 - EP); **C22C 38/60** (2013.01 - KR); **C22C 38/00** (2013.01 - EP); **C22C 38/60** (2013.01 - EP)

Citation (search report)
• [X] JP 2016196703 A 20161124 - NIPPON STEEL & SUMITOMO METAL CORP
• [X] JP 2016084529 A 20160519 - NIPPON STEEL & SUMITOMO METAL CORP
• [A] JP 2011230182 A 20111117 - SUMITOMO METAL IND
• [A] JP 2007126715 A 20070524 - SUMITOMO METAL IND
• [A] EP 2971211 A1 20160120 - EXXONMOBIL RES & ENG CO [US], et al
• See also references of WO 2019059095A1

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JP2022505582A

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 3686306 A1 20200729; **EP 3686306 A4 20200729**; **EP 3686306 B1 20240228**; CN 111108225 A 20200505; CN 111108225 B 20210924; JP 6760476 B2 20200923; JP WO2019059095 A1 20191114; KR 102363482 B1 20220215; KR 20200041938 A 20200422; MY 193070 A 20220926; PH 12020550108 A1 20201207; SG 11202002379Q A 20200429; WO 2019059095 A1 20190328

DOCDB simple family (application)
EP 18858881 A 20180913; CN 201880060450 A 20180913; JP 2018034011 W 20180913; JP 2019502271 A 20180913; KR 20207007547 A 20180913; MY PI2020001389 A 20180913; PH 12020550108 A 20200319; SG 11202002379Q A 20180913