

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)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**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

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**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