

Title (en)

HIGH MN STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)

HOCHFESTES MN-STAHBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER À HAUTE TENEUR EN MN ET PROCÉDÉ DE PRODUCTION DE CELLE-CI

Publication

EP 3553195 A1 20191016 (EN)

Application

EP 17879107 A 20171201

Priority

- JP 2016005080 W 20161208
- JP 2017043245 W 20171201

Abstract (en)

A high-Mn steel plate and a manufacturing method therefor are provided. The high-Mn steel plate has a component composition containing, in mass %, C: 0.20 to 0.70%, Si: 0.05 to 1.0%, Mn: 15 to 30%, P: 0.028% or less, S: 0.02% or less, Al: 0.01 to 0.1%, Cr: 0.5 to 7.0%, Ni: 0.03 to 0.30%, N: 0.0010 to 0.0200%, and one or two or more of Nb: 0.003 to 0.030%, V: 0.03 to 0.10%, and Ti: 0.003 to 0.040%, with the balance being Fe and incidental impurities, where: a microstructure 0.5 mm under a surface of the steel plate includes austenite as a base phase; and 25% or more of the austenite, in area ratio, has an equivalent circle diameter of 10 μ m or more and an aspect ratio of a major axis to a minor axis of 3 or more.

IPC 8 full level

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CPC (source: EP KR)

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Cited by

EP4249621A4; US11959157B2

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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BR 112019010870 B1 20230411; CN 110050082 A 20190723; CN 110050082 B 20210622; JP 6418358 B1 20181107;
JP WO2018105510 A1 20181206; KR 102309644 B1 20211006; KR 20190077470 A 20190703; KR 20210072140 A 20210616;
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EP 17879107 A 20171201; BR 112019010870 A 20171201; CN 201780075814 A 20171201; JP 2016005080 W 20161208;
JP 2017043245 W 20171201; JP 2018512637 A 20171201; KR 20197015408 A 20171201; KR 20217017558 A 20171201;
PH 12019501270 A 20190606; TW 106142964 A 20171207