

Title (en)
HOT-ROLLED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

Title (de)
WARMGEWALZTES STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER LAMINÉE À CHAUD ET SON PROCÉDÉ DE FABRICATION

Publication
EP 4306664 A4 20240417 (EN)

Application
EP 21947029 A 20210622

Priority
JP 2021023549 W 20210622

Abstract (en)
[origin: EP4306664A1] This hot-rolled steel sheet has a predetermined chemical composition and has a metallographic structure containing ferrite with an area ratio of 53.0% or more and 76.0% or less, martensite with an area ratio of 3.0% or more and 10.0% or less, bainite with an area ratio of 14.0% or more and 39.0% or less, and pearlite with an area ratio of 2.6% or less, and with an average diameter of martensite of 0.26 μm or more and 0.70 μm or less, wherein, among all interfaces of the martensite, the total length of the interfaces between the martensite and the bainite is 75.0% or more with respect to the total length of all interfaces of the martensite.

IPC 8 full level
C21D 9/46 (2006.01); **C21D 1/02** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)
C21D 1/02 (2013.01 - EP); **C21D 6/005** (2013.01 - US); **C21D 8/0205** (2013.01 - EP); **C21D 8/0226** (2013.01 - KR US); **C21D 8/0263** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/001** (2013.01 - KR); **C22C 38/002** (2013.01 - EP); **C22C 38/005** (2013.01 - EP); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/08** (2013.01 - EP); **C22C 38/12** (2013.01 - EP US); **C22C 38/14** (2013.01 - EP US); **C22C 38/16** (2013.01 - EP); **C22C 38/26** (2013.01 - EP); **C22C 38/28** (2013.01 - EP); **C22C 38/32** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/42** (2013.01 - KR); **C22C 38/44** (2013.01 - KR); **C22C 38/48** (2013.01 - KR); **C22C 38/50** (2013.01 - KR); **C22C 38/58** (2013.01 - KR); **C21D 2211/002** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - EP KR US); **C21D 2211/008** (2013.01 - EP KR US); **C21D 2211/009** (2013.01 - KR US)

Citation (search report)
• [A] US 2021140005 A1 20210513 - YOSHIDA MITSURU [JP], et al
• [A] JP 2015063731 A 20150409 - NIPPON STEEL & SUMITOMO METAL CORP
• [A] US 9863026 B2 20180109 - YOKOI TATSUO [JP], et al
• See references of WO 2022269742A1

Designated contracting state (EPC)
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