

Title (en)
STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)
STAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

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

Publication
EP 4379083 A1 20240605 (EN)

Application
EP 22849577 A 20220728

Priority
• JP 2021122923 A 20210728
• JP 2022029080 W 20220728

Abstract (en)
This steel sheet has a predetermined chemical composition, a tensile strength is 780 MPa or greater, a total of the area ratio of ferrite and an area ratio of bainite is 10% or greater and 90% or less, a total of an area ratio of martensite and an area ratio of tempered martensite is 10% or greater and 90% or less, and a total of an area ratio of pearlite and an area ratio of residual austenite is 0% or greater and 10% or less, a number proportion of crystal grains of ferrite and bainite having an area of $6\text{ }\mu\text{m}^2$ or less is 40% or greater to a total number of crystal grains of the ferrite and the bainite, and a number proportion of crystal grains of ferrite and bainite having an area of $50\text{ }\mu\text{m}^2$ or greater is 5% or less to the total number of crystal grains of the ferrite and the bainite, and a maximum Mn content in a region up to 0.5 μm from an interface between the ferrite and the martensite or the tempered martensite, in a direction perpendicular to the interface and toward an inside of the ferrite grains, is 0.30 mass% or more lower than an average Mn content of the steel sheet

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

CPC (source: EP KR)
C21D 8/0205 (2013.01 - EP); **C21D 8/0226** (2013.01 - EP KR); **C21D 8/0236** (2013.01 - EP KR); **C21D 8/0263** (2013.01 - EP KR);
C21D 8/0273 (2013.01 - EP KR); **C21D 9/46** (2013.01 - EP KR); **C22C 38/001** (2013.01 - KR); **C22C 38/002** (2013.01 - EP);
C22C 38/005 (2013.01 - EP); **C22C 38/008** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP);
C22C 38/06 (2013.01 - EP KR); **C22C 38/08** (2013.01 - EP); **C22C 38/10** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C22C 38/14** (2013.01 - EP);
C22C 38/16 (2013.01 - EP); **C22C 38/20** (2013.01 - EP); **C22C 38/22** (2013.01 - EP); **C22C 38/26** (2013.01 - EP); **C22C 38/28** (2013.01 - EP);
C22C 38/32 (2013.01 - EP); **C22C 38/34** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/42** (2013.01 - KR); **C22C 38/44** (2013.01 - KR);
C22C 38/46 (2013.01 - KR); **C22C 38/48** (2013.01 - KR); **C22C 38/50** (2013.01 - EP KR); **C22C 38/52** (2013.01 - EP KR);
C22C 38/54 (2013.01 - EP); **C22C 38/58** (2013.01 - EP KR); **C22C 38/60** (2013.01 - EP); **C23C 2/04** (2013.01 - KR); **C23C 2/06** (2013.01 - EP);
C23C 2/12 (2013.01 - EP); **C23C 30/00** (2013.01 - EP); **C21D 2211/002** (2013.01 - EP KR); **C21D 2211/005** (2013.01 - EP KR);
C21D 2211/008 (2013.01 - EP KR)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4379083 A1 20240605; CN 117751205 A 20240322; JP WO2023008516 A1 20230202; KR 20240025615 A 20240227;
WO 2023008516 A1 20230202

DOCDB simple family (application)
EP 22849577 A 20220728; CN 202280050160 A 20220728; JP 2022029080 W 20220728; JP 2023538615 A 20220728;
KR 20247002063 A 20220728