

Title (en)

A COLD ROLLED MARTENSITIC STEEL AND A METHOD OF MARTENSITIC STEEL THEREOF

Title (de)

KALTGEWALTZTER MARTENSITISCHER STAHL UND VERFAHREN FÜR MARTENSITISCHEN STAHL

Title (fr)

ACIER MARTENSITIQUE LAMINÉ À FROID ET PROCÉDÉ D'ACIER MARTENSITIQUE S'Y RAPPORTANT

Publication

EP 3983568 A1 20220420 (EN)

Application

EP 20730759 A 20200605

Priority

- IB 2019054901 W 20190612
- IB 2020055319 W 20200605

Abstract (en)

[origin: WO2020250098A1] A cold rolled martensitic steel sheet comprising of the following elements, 0.3 % # C # 0.4 %; 0.5 % # Mn # 1 %; 0.2% # Si # 0.6 %; 0.1% # Cr # 1 %; 0.01% # Al # 1 %; 0.01% # Mo # 0.5%; 0.001% # Ti # 0.1%; 0%#S#0.09%; 0% #P# 0.09%; 0%#N# 0.09%; 0% # Nb # 0.1%; 0% # V# 0.1%; 0% # Ni # 1%; 0% # Cu # 1%; 0% # B # 0.05%; 0.001% # Ca# 0.01%; 0% #Sn# 0.1%; 0% # Pb# 0.1%; 0% # Sb# 0.1%; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of steel, by area percentage, at least 95% of martensite, a cumulated amount of ferrite and bainite between 1 % and 5%, and an optional amount of residual austenite between 0% and 2%.

IPC 8 full level

C21D 1/22 (2006.01); **C21D 8/02** (2006.01); **C22C 38/22** (2006.01); **C22C 38/28** (2006.01); **C22C 38/44** (2006.01); **C22C 38/50** (2006.01)

CPC (source: EP KR US)

C21D 1/22 (2013.01 - EP); **C21D 8/0205** (2013.01 - US); **C21D 8/0226** (2013.01 - EP KR US); **C21D 8/0236** (2013.01 - EP KR US); **C21D 8/0247** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP KR); **C21D 9/46** (2013.01 - KR); **C22C 38/001** (2013.01 - KR US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - US); **C22C 38/06** (2013.01 - US); **C22C 38/22** (2013.01 - EP); **C22C 38/28** (2013.01 - EP); **C22C 38/42** (2013.01 - KR US); **C22C 38/44** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - US); **C22C 38/48** (2013.01 - US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/54** (2013.01 - US); **C22C 38/58** (2013.01 - US); **C22C 38/60** (2013.01 - KR); **C21D 2211/001** (2013.01 - EP); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP KR US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

IB 2020055319 W 20200605; BR 112021021695 A 20200605; CA 3139633 A 20200605; CN 202080033667 A 20200605; EP 20730759 A 20200605; IB 2019054901 W 20190612; JP 2021573436 A 20200605; KR 20217039946 A 20200605; MA 56172 A 20200605; MX 2021015171 A 20200605; US 202017616737 A 20200605; ZA 202108295 A 20211027