

Title (en)

HIGH STRENGTH COLD ROLLED STEEL SHEET FOR AUTOMOTIVE USE

Title (de)

HOCHFESTES KALTGEWALZTES STAHLBLECH ZUR AUTOMOTIVEN VERWENDUNG

Title (fr)

TÔLE D'ACIER LAMINÉE À FROID À HAUTE RÉSISTANCE DESTINÉE À ÊTRE UTILISÉE DANS LES AUTOMOBILES

Publication

EP 3529392 A1 20190828 (EN)

Application

EP 17808049 A 20171124

Priority

- SE 1651545 A 20161125
- EP 2017080322 W 20171124

Abstract (en)

[origin: WO2018096090A1] The invention relates to A high strength cold rolled steel sheet having a composition consisting of the following elements (in wt. %): C 0.07 - 0.15 Mn 2.3 - 3.2 Si 0.6 - 1.2 Cr 0.05 - 0.5 Al \leq 0.2 Nb \leq 0.1 balance Fe apart from impurities, a multiphase microstructure comprising a matrix of bainitic ferrite and a tensile strength (Rm) of 980 – 1100 MPa

IPC 8 full level

C22C 38/02 (2006.01); **C21D 8/02** (2006.01); **C22C 38/06** (2006.01); **C22C 38/38** (2006.01)

CPC (source: EP KR SE US)

C21D 6/002 (2013.01 - US); **C21D 8/0205** (2013.01 - US); **C21D 8/0226** (2013.01 - US); **C21D 8/0236** (2013.01 - EP KR US); **C21D 8/0263** (2013.01 - US); **C21D 9/46** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP KR SE US); **C22C 38/04** (2013.01 - EP KR SE US); **C22C 38/06** (2013.01 - EP KR SE US); **C22C 38/12** (2013.01 - EP KR SE); **C22C 38/18** (2013.01 - EP KR SE US); **C22C 38/26** (2013.01 - EP KR SE); **C22C 38/38** (2013.01 - EP KR SE); **C21D 2211/001** (2013.01 - EP KR US); **C21D 2211/002** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - EP KR US); **C21D 2211/008** (2013.01 - EP KR US)

Cited by

WO2020096555A3; SE2150431A1; SE544819C2

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

DOCDB simple family (publication)

WO 2018096090 A1 20180531; CN 110268085 A 20190920; EP 3529392 A1 20190828; EP 3529392 B1 20210217; JP 2020509162 A 20200326; JP 2023099015 A 20230711; JP 7498562 B2 20240612; KR 20190089183 A 20190730; SE 1651545 A1 20180306; SE 540040 C2 20180306; US 2019352750 A1 20191121

DOCDB simple family (application)

EP 2017080322 W 20171124; CN 201780073115 A 20171124; EP 17808049 A 20171124; JP 2019528078 A 20171124; JP 2023065875 A 20230413; KR 20197018164 A 20171124; SE 1651545 A 20161125; US 201716461689 A 20171124