

Title (en)
STEEL SHEET AND SURFACE-TREATED STEEL SHEET

Title (de)
STAHLBLECH UND OBERFLÄCHENBEHANDELTES STAHLBLECH

Title (fr)
FEUILLE D'ACIER ET FEUILLE D'ACIER TRAITÉE EN SURFACE

Publication
EP 2371978 B1 20180502 (EN)

Application
EP 09827543 A 20091117

Priority
• JP 2009069464 W 20091117
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Abstract (en)
[origin: WO2010058762A1] A high-strength steel sheet having excellent bending strength in the form of a tensile strength of 590 MPa or higher has a chemical composition of C: 0.03 to 0.20%, Si: 0.005 to 2.0%, Mn: 1.2 to 3.5%, P=0.1% or less, S=0.11% or less, sol. Al: 0.001 to 1.0%, N=0.01%, and Bi: 0.0001 to 0.05%; arbitrarily contains Ti:=0.3%, Nb:=0.3%, V:=0.3%, Cr:=1%, Mo:=1%, Cu:=1%, Ni:=1%, Ca:=0.01%, Mg:=0.01%, REM:=0.01%, Zr:=0.01%, and B:=0.01%; and has an Mn segregation ratio (Mnmax/Mnav) of less than 1.30 as calculated from the average Mn concentration (Mnav) and the maximum Mn concentration (Mnmax) at a position of (1/20) the depth of sheet thickness from the steel sheet surface.

IPC 8 full level
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CPC (source: EP KR)
C21D 8/0215 (2013.01 - EP KR); **C21D 8/0226** (2013.01 - EP KR); **C21D 8/0236** (2013.01 - EP KR); **C21D 8/0273** (2013.01 - EP KR); **C22C 38/002** (2013.01 - EP KR); **C22C 38/005** (2013.01 - KR); **C22C 38/02** (2013.01 - EP KR); **C22C 38/04** (2013.01 - EP KR); **C22C 38/06** (2013.01 - EP KR)

Cited by
ES2437715A1; EP3085801A4; US2018230569A1; US10344361B2; US10704117B2; US11365465B2; US10273555B2; US10253387B2; US10711322B2; US10344351B2; US10774405B2; US10508317B2

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