

Title (en)
ATMOSPHERE CORROSION RESISTING STEEL PLATE HAVING HIGH STRENGTH AND EXCELLENT BENDING FORMABILITY AND METHOD FOR PRODUCTION THEREOF

Title (de)
GEGEN ATMOSPHÄREKORROSION BESTÄNDIGE STAHLPLATTE MIT HOHER FESTIGKEIT UND HERVORRAGENDER BIEGEUMFORMBARKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TOLE D'ACIER RESISTANTE A LA CORROSION ATMOSPHERIQUE, PRESENTANT UNE RESISTANCE ELEVEE ET UNE EXCELLENTE FORMABILITE PAR PLIAGE, ET PROCEDE DE PRODUCTION DE LADITE TOLE D'ACIER

Publication
EP 1486580 B1 20120307 (EN)

Application
EP 03742886 A 20030124

Priority
• JP 0300676 W 20030124
• JP 2002050869 A 20020227

Abstract (en)
[origin: EP1486580A1] The present invention: provides a steel material that withstands bending work after blasting or the like and has weather resistance while securing an ultra-high strength of 700 MPa or higher in terms of yield strength, and a method for producing said steel sheet; and is a weather-resistant high strength steel sheet excellent in bendability, said steel sheet containing, in mass, C: 0.05 to 0.15%, Si: 0.5% or less, Mn: 0.5 to 2.0%, p: 0.02% or less, S: 0.005% or less, Ni: 0.2 to 2.0%, Cu: 0.2 to 0.5%, and Cr: 0.2 to 1.0%, and one or more of Ti: 0.03 to 0.2%, Nb: 0.01 to 0.07%, V: 0.01 to 0.07%, and B: 0.0005 to 0.0050%, with the balance consisting of Fe and unavoidable impurities, and being produced by heating it to a temperature of 1,200 DEG C or higher, thereafter finish-rolling it in the temperature range from 850 DEG C to 950 DEG C, and coiling it in the temperature range from 500 DEG C to 650 DEG C. <IMAGE>

IPC 8 full level
C21D 8/02 (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/42** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP)
C21D 8/0226 (2013.01); **C21D 9/46** (2013.01); **C22C 38/02** (2013.01); **C22C 38/42** (2013.01); **C22C 38/48** (2013.01); **C22C 38/50** (2013.01); **C22C 38/58** (2013.01)

Citation (examination)
• JP 2001020033 A 20010123 - KAWASAKI STEEL CO
• JP 2001020039 A 20010123 - KOBE STEEL LTD
• EP 1052303 A2 20001115 - KAWASAKI STEEL CO [JP]

Cited by
EP2154262A4

Designated contracting state (EPC)
BE ES FR

DOCDB simple family (publication)
EP 1486580 A1 20041215; **EP 1486580 A4 20060830**; **EP 1486580 B1 20120307**; **EP 1486580 B2 20160907**; **EP 1486580 B9 20150422**; CN 1297681 C 20070131; CN 1639371 A 20050713; ES 2381356 T3 20120525; ES 2381356 T5 20170405; JP 2003253382 A 20030910; JP 3940301 B2 20070704; TW 200303367 A 20030901; TW I284154 B 20070721; WO 03072841 A1 20030904

DOCDB simple family (application)
EP 03742886 A 20030124; CN 03804658 A 20030124; ES 03742886 T 20030124; JP 0300676 W 20030124; JP 2002050869 A 20020227; TW 92102678 A 20030210