

Title (en)

STAINLESS STEEL SHEET FOR STRUCTURAL MEMBERS EXCELLENT IN IMPACT -ABSORBING CHARACTERISTICS

Title (de)

EDELSTAHLBLECH FÜR STRUKTURELEMENTE MIT HERVORRAGENDEN STOSSDÄMPFUNGSEIGENSCHAFTEN

Title (fr)

FEUILLE EN ACIER INOXYDABLE POUR DES ÉLÉMENTS STRUCTURAUX PRÉSENTANT D'EXCELLENTE CARACTÉRISTIQUES D'ABSORPTION DES CHOCS

Publication

EP 2060646 A1 20090520 (EN)

Application

EP 07831178 A 20071030

Priority

- JP 2007071445 W 20071030
- JP 2006350722 A 20061227

Abstract (en)

This invention provides a steel sheet for structural components excellent in impact absorption property comprising, in mass%, C: 0.005 to 0.05%, N: 0.01 to 0.30%, Si: 0.1 to 2%, Mn: 0.1 to 15%, Ni: 0.5 to 8%, Cu: 0.1 to 5%, Cr: 11 to 20%, Al: 0.01 to 0.5%, and a balance of Fe and unavoidable impurities, wherein Md 30 value given by equation (A) is 0 to 100 °C, and total impact energy absorption in dynamic tensile testing is 500 MJ/m³ or greater: Md 30 = 551 - 462 C + N - 9.2 Si - 8.1 Mn - 13.7 Cr - 29 Ni + Cu

IPC 8 full level

C22C 38/00 (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/18** (2006.01); **C22C 38/20** (2006.01); **C22C 38/34** (2006.01); **C22C 38/36** (2006.01); **C22C 38/40** (2006.01); **C22C 38/42** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

C22C 38/001 (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP US); **C22C 38/20** (2013.01 - EP US); **C22C 38/34** (2013.01 - EP US); **C22C 38/36** (2013.01 - EP US); **C22C 38/40** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP US)

Cited by

US2012237388A1; EP2566994A4; ITRM20120647A1; EP3239341A4; EP2699704A4; AU2012246194B2; WO2012143610A1; US10066280B2; WO2014097184A3

Designated contracting state (EPC)

DE FI FR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 2060646 A1 20090520; **EP 2060646 A4 20140101**; **EP 2060646 B1 20150617**; CN 101410543 A 20090415; CN 101410543 B 20110406; JP 2008163358 A 20080717; JP 5165236 B2 20130321; KR 20080106200 A 20081204; US 2010233015 A1 20100916; WO 2008078457 A1 20080703

DOCDB simple family (application)

EP 07831178 A 20071030; CN 200780011149 A 20071030; JP 2006350722 A 20061227; JP 2007071445 W 20071030; KR 20087020686 A 20080822; US 22532707 A 20071030