

Title (en)
CORROSION-RESISTANT STEEL MATERIAL FOR CRUDE OIL TANKER

Title (de)
KORROSIONSBESTÄNDIGER STAHLWERKSTOFF FÜR ROHÖLTANKER

Title (fr)
MATÉRIAU EN ACIER RÉSISTANT À LA CORROSION POUR PÉTROLIER DE BRUT

Publication
EP 2377963 A1 20111019 (EN)

Application
EP 09835097 A 20091222

Priority
• JP 2009071841 W 20091222
• JP 2008327466 A 20081224
• JP 2009035217 A 20090218

Abstract (en)
This invention provides a corrosion-resistant steel product for tanker that is excellent in the corrosion resistance in a corrosion environment of oil tanks of tankers and also excellent in the corrosion resistance after coating in a corrosion environment of ballast tanks. Specifically, this invention provides a corrosion-resistant steel product for crude oil tanker containing, by mass%, C: 0.03 to 0.16%, Si: 0.05 to 1.50%, Mn: 0.1 to 2.0%, P: 0.025% or lower S: 0.01% or lower, Al: 0.005 to 0.10%, N: 0.008 % or lower, Cr: more than 0.1% and 0.5% or lower, and Cu: 0.03 to 0.5% and, as an alternative addition element, one or two or more elements selected from W: 0.01 to 0.5%, Mo: 0.01 to 0.50, Sn: 0.001 to 0.2%, Sb: 0.001 to 0.5%, Ni: 0.005 to 0.3%, and Co: 0.005 to 0.3%, and further containing Cu, W, Mo, Sn, Sb, Cr, Ni, Co, S, and P in such a manner as to satisfy a specific relationship.

IPC 8 full level
C22C 38/20 (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)
C21D 9/46 (2013.01 - EP); **C22C 38/008** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/20** (2013.01 - EP KR); **C22C 38/22** (2013.01 - EP); **C22C 38/38** (2013.01 - EP); **C22C 38/60** (2013.01 - EP KR); **C23C 28/00** (2013.01 - KR)

Cited by
EP3744871A4; EP2395120A4

Designated contracting state (EPC)
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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2377963 A1 20111019; EP 2377963 A4 20150805; EP 2377963 B1 20190313; CN 102264937 A 20111130; CN 102264937 B 20131030; JP 2010216005 A 20100930; JP 4502075 B1 20100714; KR 101147950 B1 20120524; KR 20100137017 A 20101229; KR 20120008089 A 20120125; TW 201035333 A 20101001; TW I404807 B 20130811; WO 2010074307 A1 20100701

DOCDB simple family (application)
EP 09835097 A 20091222; CN 200980152637 A 20091222; JP 2009071841 W 20091222; JP 2009288921 A 20091221; KR 20107026861 A 20091222; KR 20127000288 A 20091222; TW 98144495 A 20091223