Title (en)

CORROSION RESISTANT STEEL FOR CRUDE OIL TANK, MANUFACTURING METHOD THEREFOR, AND CRUDE OIL TANK

Title (de)

KORROSIONSBESTÄNDIGER STAHL FÜR EINEN ERDÖLTANK, HERSTELLUNGSVERFAHREN DAFÜR UND ERDÖLTANK

Title (fr)

MATÉRIAU D'ACIER RÉSISTANT À LA CORROSION POUR RÉSERVOIR DE PÉTROLE BRUT, PROCÉDÉ DE FABRICATION DE CE MATÉRIAU D'ACIER, AINSI QUE RÉSERVOIR DE PÉTROLE BRUT

Publication

EP 2395120 B1 20150715 (EN)

Application

EP 10735964 A 20100128

Priority

- JP 2010051550 W 20100128
- JP 2009019545 A 20090130

Abstract (en)

[origin: EP2395120A1] Provided is a steel product for a crude oil tank which possesses excellent general corrosion resistance and excellent local corrosion resistance and also exhibits such excellent corrosion resistances even when the steel product is used in a state where Zn is present in a surface of the steel product. To be more specific, provided is a corrosion resistance steel product for a crude oil tank having a composition which contains by mass% 0.001 to 0.16% C, 1.5% or less Si, 0.1 to 2.5% Mn, 0.025 or less P, 0.01% or less S, 0.005 to 0.1% Al, 0.001 to 0.008% N, 0.008 to 0.35% Cu, more than 0.1% and 0.5% or less Cr, 0.005 to 0.3% Sn, and 0.01% or less Mo, and a value of A1 defined by the following formula is set to 0 or less. Note A #¢ 1 = 28 × C + 2000 × P 2 + 27000 × S 2 + 0.0083 × 1 / Cu + 0.027 × 1 / Cr + 95 × Mo + 0.00098 × 1 / Sn - 6.

IPC 8 full level

C21D 8/02 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)

C21D 8/0221 (2013.01 - KR); **C21D 8/0226** (2013.01 - EP KR); **C22C 38/001** (2013.01 - EP KR); **C22C 38/008** (2013.01 - EP KR); **C22C 38/02** (2013.01 - EP KR); **C22C 38/04** (2013.01 - EP KR); **C22C 38/06** (2013.01 - EP KR); **C22C 38/08** (2013.01 - KR); **C22C 38/18** (2013.01 - KR); **C22C 38/20** (2013.01 - EP KR); **C22C 38/22** (2013.01 - EP KR); **C22C 38/40** (2013.01 - KR); **C22C 38/42** (2013.01 - EP KR); **C22C 38/44** (2013.01 - EP KR); **C22C 38/60** (2013.01 - EP KR)

Cited by

EP3744871A4; US10961611B2; WO2016095720A1

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 2395120 A1 20111214; **EP 2395120 A4 20120808**; **EP 2395120 B1 20150715**; CN 102301025 A 20111228; CN 102301025 B 20140625; JP 2010196166 A 20100909; JP 4640529 B2 20110302; KR 20110089205 A 20110804; KR 20130029436 A 20130322; KR 20160049023 A 20160504; TW 201042056 A 20101201; TW I410503 B 20131001; WO 2010087509 A1 20100805

DOCDB simple family (application)

EP 10735964 A 20100128; CN 201080006118 A 20100128; JP 2010018274 A 20100129; JP 2010051550 W 20100128; KR 20117015436 A 20100128; KR 20137002953 A 20100128; KR 20167009925 A 20100128; TW 99102654 A 20100129