

Title (en)

CORROSION-RESISTANT STEEL FOR HOLD OF COAL CARRYING VESSEL OR COAL/ORE CARRYING VESSEL

Title (de)

KORROSIONSBESTÄNDIGER STAHL ZUM HALTEN EINES KOHLEGEFÄSS ODER EINES KOHLE/ERZ-GEFÄSSES

Title (fr)

ACIER RÉISTANT À LA CORROSION DESTINÉ À LA CALE D'UN TRANSPORTEUR DE CHARBON OU D'UN TRANSPORTEUR DE CHARBON/MINÉRAI

Publication

**EP 2808411 A4 20151021 (EN)**

Application

**EP 12866465 A 20120425**

Priority

- JP 2012012530 A 20120125
- JP 2012061624 W 20120425

Abstract (en)

[origin: EP2808411A1] The present invention provides a corrosion-resistant steel for a coal carrier or ore/coal carrier hold, wherein corrosion after peeling of a coating film can be inhibited under a cyclic wet and dry environment and a low pH environment. Specifically, the corrosion-resistant steel for a coal carrier or ore/coal carrier hold is characterized in that the chemical composition of the steel contains C: 0.010 to 0.200 percent by mass, Si: 0.05 to 0.50 percent by mass, Mn: 0.10 to 2.0 percent by mass, P: 0.0250 percent by mass or less, S: 0.010 percent by mass or less, Al: 0.0050 to 0.10 percent by mass, Sb: 0.010 to 0.50 percent by mass, N: 0.0010 to 0.0080 percent by mass, and in addition, the remainder composed of Fe and incidental impurities.

IPC 8 full level

**C22C 38/00** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP)

**C21D 6/005** (2013.01); **C22C 38/001** (2013.01); **C22C 38/002** (2013.01); **C22C 38/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **C22C 38/08** (2013.01); **C22C 38/16** (2013.01); **C22C 38/18** (2013.01); **C22C 38/40** (2013.01); **C22C 38/42** (2013.01); **C22C 38/60** (2013.01); **C21D 2211/004** (2013.01)

Citation (search report)

- [X] EP 1990437 A1 20081112 - JFE STEEL CORP [JP]
- [X] EP 1460145 A1 20040922 - NIPPON STEEL CORP [JP]
- [XA] JP H0953149 A 19970225 - KOBE STEEL LTD
- [A] JP H0971837 A 19970318 - NIPPON KOKAN KK
- See references of WO 2013111355A1

Cited by

US2018148811A1; RU2630086C1; CN111655889A; EP3744872A4; US9982331B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2808411 A1 20141203**; **EP 2808411 A4 20151021**; **EP 2808411 B1 20170823**; CN 104105806 A 20141015; JP 2012177190 A 20120913; JP 5862323 B2 20160216; KR 20140105862 A 20140902; WO 2013111355 A1 20130801

DOCDB simple family (application)

**EP 12866465 A 20120425**; CN 201280068152 A 20120425; JP 2012012530 A 20120125; JP 2012061624 W 20120425; KR 20147020844 A 20120425