

Title (en)

METHODS OF REMOVING RUST FROM A FERROUS METAL-CONTAINING SURFACE

Title (de)

VERFAHREN ZUR ENTROSTUNG EINER EISENMETALLHALTIGEN OBERFLÄCHE

Title (fr)

PROCÉDÉS D'ÉLIMINATION DE ROUILLE SUR UNE SURFACE CONTENANT UN MÉTAL FERREUX

Publication

EP 2665845 B1 20180307 (EN)

Application

EP 12706349 A 20120120

Priority

- US 201113011151 A 20110121
- US 2012022004 W 20120120

Abstract (en)

[origin: WO2012100146A1] Disclosed are methods for removing rust from a ferrous metal-containing surface. These methods include contacting the surface with a composition that includes a carboxylic acid, a synthetic hectorite clay, and water.

IPC 8 full level

C23G 1/08 (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP KR US)

C11D 3/1253 (2013.01 - EP US); **C11D 7/20** (2013.01 - EP US); **C11D 7/265** (2013.01 - EP US); **C11D 11/00** (2013.01 - KR);
C23G 1/08 (2013.01 - KR); **C23G 1/088** (2013.01 - EP US); **C11D 2111/16** (2024.01 - EP US)

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)

WO 2012100146 A1 20120726; AU 2012207164 B2 20150820; BR 112013018680 A2 20161018; CA 2825284 A1 20120726;
CN 103415651 A 20131127; CN 103415651 B 20161026; EP 2665845 A1 20131127; EP 2665845 B1 20180307; ES 2666452 T3 20180504;
JP 2014508220 A 20140403; JP 5693754 B2 20150401; KR 20130117853 A 20131028; MX 2013008465 A 20131206; NZ 613553 A 20151127;
PL 2665845 T3 20180831; SG 192055 A1 20130830; TR 201807940 T4 20180621; US 2012189485 A1 20120726

DOCDB simple family (application)

US 2012022004 W 20120120; AU 2012207164 A 20120120; BR 112013018680 A 20120120; CA 2825284 A 20120120;
CN 201280010699 A 20120120; EP 12706349 A 20120120; ES 12706349 T 20120120; JP 2013550611 A 20120120;
KR 20137021700 A 20120120; MX 2013008465 A 20120120; NZ 61355312 A 20120120; PL 12706349 T 20120120;
SG 2013055413 A 20120120; TR 201807940 T 20120120; US 201113011151 A 20110121