

Title (en)

METHOD FOR MANUFACTURING AN OILED ZNALMG COATED SHEET AND CORRESPONDING SHEET

Title (de)

VERFAHREN ZUM HERSTELLEN EINES GEÖLTEN ZNALMG-BESCHICHTETEN BLECHS UND ENTSPRECHENDES BLECH

Title (fr)

PROCÉDÉ DE RÉALISATION D'UNE TÔLE À REVÊTEMENTS ZNALMG HUILÉS ET TÔLE CORRESPONDANTE.

Publication

**EP 2841615 A1 20150304 (FR)**

Application

**EP 13727384 A 20130425**

Priority

- FR 2012050906 W 20120425
- IB 2013053286 W 20130425

Abstract (en)

[origin: WO2013160566A1] The method comprises at least the following steps: providing a steel substrate (3) having two faces (5), depositing a metal coating (7) on each face (5) by quenching the substrate (3) in a hot bath, cooling the metal coatings (7), altering the magnesium hydroxide or magnesium oxide layers formed on the outer surfaces (15) of the metal coatings (7), and depositing a layer of oil on the outer surfaces (15) of the metal coatings (7).

IPC 8 full level

**C23C 2/06** (2006.01); **C23C 2/26** (2006.01); **C23C 22/06** (2006.01)

CPC (source: CN EP KR US)

**C23C 2/06** (2013.01 - CN EP KR US); **C23C 2/26** (2013.01 - CN EP US); **C23C 2/29** (2022.08 - KR); **C23C 2/40** (2013.01 - KR); **C23C 22/06** (2013.01 - CN KR US); **C23C 22/53** (2013.01 - KR US); **C23C 22/82** (2013.01 - KR US); **C23C 28/321** (2013.01 - US); **C23C 28/345** (2013.01 - KR US); **C23G 1/12** (2013.01 - EP KR); **Y10T 428/12549** (2015.01 - 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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2013160566 A1 20131031**; BR 112014026681 A2 20170627; BR 112014026681 B1 20201020; CA 2871672 A1 20131031; CA 2871672 C 20170117; CN 104334764 A 20150204; CN 104334764 B 20170714; CN 107012419 A 20170804; CN 107012419 B 20191224; EP 2841615 A1 20150304; EP 2841615 B1 20200624; ES 2808663 T3 20210301; HU E051979 T2 20210428; IN 9954DEN2014 A 20150814; JP 2015521233 A 20150727; JP 2017128810 A 20170727; JP 6143845 B2 20170607; JP 6487474 B2 20190320; KR 101656166 B1 20160908; KR 20150012256 A 20150203; MA 20150099 A1 20150331; MA 37452 B1 20160429; MX 2014013007 A 20150807; PL 2841615 T3 20201116; RU 2583193 C1 20160510; UA 114627 C2 20170710; US 10294558 B2 20190521; US 10865483 B2 20201215; US 2015125714 A1 20150507; US 2019169754 A1 20190606; WO 2013160871 A1 20131031

DOCDB simple family (application)

**FR 2012050906 W 20120425**; BR 112014026681 A 20130425; CA 2871672 A 20130425; CN 201380028915 A 20130425; CN 201710085219 A 20130425; EP 13727384 A 20130425; ES 13727384 T 20130425; HU E13727384 A 20130425; IB 2013053286 W 20130425; IN 9954DEN2014 A 20141124; JP 2015507655 A 20130425; JP 2017027551 A 20170217; KR 20147032765 A 20130425; MA 37452 A 20141023; MX 2014013007 A 20120425; PL 13727384 T 20130425; RU 2014147319 A 20130425; UA A201412653 A 20130425; US 201314397108 A 20130425; US 201816207888 A 20181203