

Title (en)

Tinplate with a polymer coating and method for producing the same

Title (de)

Mit einer Polymerbeschichtung beschichtetes Weißblech und Verfahren zu dessen Herstellung

Title (fr)

Fer-blanc revêtu d'une couche polymère et son procédé de fabrication

Publication

**EP 2845929 B1 20170927 (DE)**

Application

**EP 14171749 A 20140610**

Priority

DE 102013109801 A 20130909

Abstract (en)

[origin: US2015072167A1] A method for the coating of a chromium-free surface of a tin-plated steel sheet with a polymer coating, with the chromium-free tin surface of the tin-plated steel sheet first electrochemically oxidized in a first step and a polymer coating applied on the oxidized tin surface in a second step, and an apparatus for the carrying out of the method. A tinplate coated with a polymer coating made of polyethylene terephthalate (PET) and passivated chromium-free, wherein only one thin tin oxide layer and perhaps an adhesion promoter layer are present between the tin surface of the tinplate and the polymer coating, and the use of such a tinplate for the production of packagings.

IPC 8 full level

**C25D 5/36** (2006.01); **C25D 5/50** (2006.01); **C25D 7/06** (2006.01); **C25D 11/00** (2006.01); **C25D 11/34** (2006.01)

CPC (source: EP US)

**B65D 25/14** (2013.01 - US); **B65D 25/34** (2013.01 - US); **C23C 28/00** (2013.01 - US); **C25D 5/36** (2013.01 - EP US); **C25D 5/505** (2013.01 - EP US); **C25D 7/0614** (2013.01 - EP US); **C25D 7/0621** (2013.01 - EP US); **C25D 11/005** (2013.01 - EP US); **C25D 11/34** (2013.01 - EP US); **Y10T 428/12549** (2015.01 - EP US)

Citation (opposition)

Opponent : Tata Steel IJmuiden B.V.

- WO 9703823 A1 19970206 - BRITISH STEEL PLC [GB], et al
- EP 2802688 A2 20141119 - THYSSENKRUPP RASSELSTEIN GMBH [DE]
- DE 19730893 C1 19980723 - RASSELSTEIN HOESCH GMBH [DE]
- WO 2012146654 A1 20121101 - TATA STEEL IJMUIDEN BV [NL], et al
- EP 0312304 A1 19890419 - MB GROUP PLC [GB]
- GB 479681 A 19380207 - CROSSE & BLACKWELL LTD, et al
- "the technology of metal protection and decoration", 1998, article "Canmaking", pages: 127 - 128, XP055500626
- MARINO XANTHOS: "Functional fillers for plastics", 2010, article "19.3 Antiblocking Fillers", pages: 395,401, XP055500628

Cited by

DE202020100524U1; EP3133187A1; WO2017001283A3

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 2845929 A1 20150311**; **EP 2845929 B1 20170927**; BR 102014018213 A2 20150929; BR 102014018213 B1 20211221; CN 104415899 A 20150318; CN 104415899 B 20170524; DE 102013109801 A1 20150312; DE 102013109801 B4 20200709; ES 2647519 T3 20171222; JP 2015078427 A 20150423; JP 6231447 B2 20171115; NO 3033327 T3 20180602; PL 2845929 T3 20180430; PT 2845929 T 20171215; RS 56605 B1 20180228; RU 2014135734 A 20160327; RU 2590546 C2 20160710; US 2015072167 A1 20150312

DOCDB simple family (application)

**EP 14171749 A 20140610**; BR 102014018213 A 20140724; CN 201410454099 A 20140905; DE 102013109801 A 20130909; ES 14171749 T 20140610; JP 2014149572 A 20140723; NO 14755535 A 20140814; PL 14171749 T 20140610; PT 14171749 T 20140610; RS P20171217 A 20140610; RU 2014135734 A 20140903; US 201414480683 A 20140909