

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.

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- EP 2802688 A2 20141119 - THYSSENKRUPP RASSELSTEIN GMBH [DE]
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- WO 2012146654 A1 20121101 - TATA STEEL IJMUIDEN BV [NL], et al
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- "the technology of metal protection and decoration", 1998, article "Canmaking", pages: 127 - 128, XP055500626
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DE202020100524U1; EP3133187A1; WO2017001283A3

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