

Title (en)

Method for producing a corrosion protected steel flat product

Title (de)

Verfahren zum Herstellen eines korrosionsgeschützten Stahlflachprodukts

Title (fr)

Procédé de fabrication d'un produit plat en acie protégé contre la corrosion

Publication

EP 1767670 A1 20070328 (DE)

Application

EP 06121111 A 20060922

Priority

DE 102005045780 A 20050923

Abstract (en)

In a process to make corrosion-resistant sheet steel with properties suitable for selected applications, the sheet steel is coated with a layer of zinc, followed by mechanical or chemical cleaning. Immediately following the cleaning process, the zinc-coated sheet steel is coated using magnesium vapor deposition prior to hot galvanization at 335-359C. Hot galvanization forms a diffusion or convection layer between the zinc and magnesium layers.

IPC 8 full level

C23F 17/00 (2006.01)

CPC (source: EP KR US)

C23C 26/00 (2013.01 - EP US); **C23F 17/00** (2013.01 - KR); **C23G 1/10** (2013.01 - EP US); **C23G 1/20** (2013.01 - EP US)

Citation (search report)

- [X] WO 2005028695 A1 20050331 - USINOR [FR], et al
- [XD] EP 0756022 A2 19970129 - FRAUNHOFER GES FORSCHUNG [DE], et al
- [A] WO 0214573 A1 20020221 - FRAUNHOFER GES FORSCHUNG [DE], et al

Cited by

EP2045360A1; EP2085492A1; EP2088223A1; EP2098607A1; WO2009118466A1; WO2011054571A1; WO2009047183A1; US10072327B2; US11313023B2

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AL BA HR MK YU

DOCDB simple family (publication)

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EP 06121111 A 20060922; AU 2006293917 A 20060922; BR PI0616110 A 20060922; CA 2622817 A 20060922; CN 200680034901 A 20060922; DE 102005045780 A 20050923; EP 06793750 A 20060922; EP 2006066632 W 20060922; JP 2008531712 A 20060922; KR 20087008616 A 20080410; RU 2008115945 A 20060922; US 6696206 A 20060922; ZA 200802606 A 20080320