

Title (en)

Method of manufacturing a flat steel product coated with a corrosion protection system

Title (de)

Verfahren zum Herstellen eines mit einem Korrosionsschutzsystem überzogenen Stahlflachprodukts

Title (fr)

Procédé de fabrication d'un produit d'acier plat revêtu avec un système de protection contre la corrosion

Publication

EP 1857567 B1 20170405 (DE)

Application

EP 06113963 A 20060515

Priority

EP 06113963 A 20060515

Abstract (en)

[origin: EP1857567A1] In a process to apply an anti-corrosion coating to sheet steel, the steel is pre-heated to a strip temperature under an inert gas and then cooled to a strip-entry temperature. The steel strip is then passed through a zinc bath, leaving a coating containing no more than 0.5 per cent Wt. aluminum. Surplus coating is then scraped off to leave a skin 3-20 mm thick each side. The steel strip is then allowed to cool, followed by application of an organic coating agent e.g. paint.

IPC 8 full level

C23C 2/02 (2006.01); **C23C 2/06** (2006.01); **C23C 2/26** (2006.01); **C23G 1/20** (2006.01)

CPC (source: EP KR US)

B08B 1/165 (2024.01 - KR); **C23C 2/00** (2013.01 - EP US); **C23C 2/0224** (2022.08 - EP KR US); **C23C 2/06** (2013.01 - EP KR US); **C23C 2/26** (2013.01 - EP US); **C23C 2/29** (2022.08 - KR); **C23G 1/20** (2013.01 - EP KR US)

Citation (examination)

- EP 1621645 A1 20060201 - CORUS STAAL BV [NL]
- SCHUHMACHER B ET AL: "Element distribution of aluminium and lead in hot-dip galvanized coatings and their influences on the coating properties", PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON ZINC AND ZINC ALLOY COATED STEEL SHEET (GALVATECH '98) MAKUHARI, CHIBA [JP], C11-6, 20 September 1998 (1998-09-20) - 23 September 1998 (1998-09-23), The Iron and Steel Institute of Japan, Tokyo [JP], pages 819 - 824

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DE102012109855A1; US11155926B2; WO2014125117A1; WO2014125173A1; EP2841615B1

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