

Title (en)

Flat steel product provided with a corrosion protection coating and method of its manufacture

Title (de)

Mit einem Korrosionsschutzüberzug versehenes Stahlflachprodukt und Verfahren zu seiner Herstellung

Title (fr)

Produit d'acier plat revêtu avec une revêtement de protection contre la corrosion et procédé de son fabrication

Publication

**EP 1857566 B1 20170503 (DE)**

Application

**EP 06113962 A 20060515**

Priority

EP 06113962 A 20060515

Abstract (en)

[origin: EP1857566A1] Steel flat product comprises a steel substrate, such as a steel strip or sheet, and a zinc-based anti-corrosion coating containing (in wt.%) 0.25-2.5 magnesium, 0.2-3.0 aluminum, not more than 4.0 iron and up to 0.8 in total of lead, bismuth, cadmium, titanium, boron, silicon, copper, nickel, cobalt, chromium, manganese, tin and rare earth metals. The anti-corrosion coating is arranged in an intermediate layer which extends between a surface layer lying directly next to the surface of the product. An independent claim is also included for a method for the production of the steel flat product.

IPC 8 full level

**C23C 2/02** (2006.01); **C23C 2/06** (2006.01)

CPC (source: EP KR US)

**C23C 2/0224** (2022.08 - EP KR US); **C23C 2/06** (2013.01 - EP KR US); **Y10T 428/12799** (2015.01 - EP US); **Y10T 428/265** (2015.01 - EP US); **Y10T 428/27** (2015.01 - EP US)

Citation (examination)

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- 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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