

Title (en)

Process for producing a multilayer-coated strip having excellent corrosion resistance and weldability and useful for containers.

Title (de)

Verfahren zur Herstellung eines mehrfach beschichteten Stahlbandes mit ausgezeichneter Korrosionsbeständigkeit und Schweissbarkeit sowie verwendbar für Container.

Title (fr)

Procédé pour la fabrication d'une feuille d'acier à revêtements multiples ayant une excellente résistance à la corrosion, soudable et utilisable pour les containers.

Publication

EP 0260374 A2 19880323 (EN)

Application

EP 87104231 A 19870323

Priority

JP 22052186 A 19860918

Abstract (en)

A multilayer-coated steel strip having an excellent corrosion resistance and weldability and useful for cans and containers is produced by a process in which a steel strip substrate is plated with nickel a nickel-based alloy to form nickel based coating layers each having an average amount of 2 to 10 mg/m², provided with a number of convex and concave portions thereof, portions of which layers having a coating thickness of 0.001 μm or more have a total area corresponding to 10 to 90% of the entire area of the surfaces of the substrate; the nickel based plated substrate is coated with tin to form tin coating layers on the nickel-based coating layers, each of which tin coating layers has an average amount of 200 to 2000 mg/m²; the resultant precursory coated steel strip is heated at a temperature equal to or higher than the melting point of tin to convert the nickel-based coating layers and the tin coating layers to base coating layers consisting essentially of an Fe-Ni-Sn-based alloy and having a number of convex and concave portions thereof, and intermediate coating layers formed on the base coating layers, consisting essentially of tin and having a number of convex and concave portions thereof; and then an electrolytic chromate treatment is applied onto the intermediate tin coating layers to form surface coating layers consisting of electrolysed chromate.

IPC 1-7

C25D 5/12; C25D 11/38

IPC 8 full level

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CPC (source: EP US)

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