

Title (en)

METHOD FOR THE GALVANIC DEPOSITION OF ZINC AND ZINC ALLOY LAYERS FROM AN ALKALINE COATING BATH WITH REDUCED DEGRADATION OF ORGANIC BATH ADDITIVES

Title (de)

VERFAHREN ZUR GALVANISCHEN ABSCHIEDUNG VON ZINK- UND ZINKLEGIERUNGSÜBERZÜGEN AUS EINEM ALKALISCHEN BESCHICHTUNGSBAD MIT REDUZIERTEM ABBAU VON ORGANISCHEN BADZUSÄTZEN

Title (fr)

PROCÉDÉ DE DÉPÔT PAR PLACAGE DE REVÊTEMENTS EN ZINC ET EN ALLIAGE DE ZINC À PARTIR D'UN BAIN DE REVÊTEMENT ALCALIN À ÉLIMINATION RÉDUITE DES ADDITIFS DE BAIN ORGANIQUES

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Abstract (en)

[origin: WO2018146041A1] The present invention relates to a method for electrodepositing zinc and zinc alloy coatings from an alkaline coating bath with reduced depletion of organic bath additives. This involves using as an anode an electrode which is insoluble in the bath, contains metallic manganese and/or manganese oxide and is produced from metallic manganese or a manganese-containing alloy, wherein the manganese-containing alloy contains at least 5% by weight manganese, or is produced from an electrically conductive carrier and a coating containing metallic manganese and/or manganese oxide that is applied thereto, or is produced from a composite material, wherein both the coating containing metallic manganese and/or manganese oxide and the composite material contain with respect to the total amount of manganese at least 5% by weight of manganese that is obtained from metallic manganese and manganese oxide. The method according to the invention is particularly suitable for the electrodepositing of zinc-nickel alloy coatings from alkaline zinc-nickel baths, since the formation of cyanides can be suppressed very effectively.

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