

Title (en)

AQUEOUS, ALKALINE BATH, DEVOID OF CYANIDE, FOR DEPOSITING ELECTROPLATED ZINC ALLOY COATINGS

Title (de)

WÄSSRIGES ALKALISCHES, CYANIDFREIES BAD ZUR GALVANISCHEN ABSCHIEDUNG VON ZINKLEGIERUNGSÜBERZÜGEN

Title (fr)

BAIN AQUEUX, ALCALIN ET SANS CYANURE PERMETTANT LE DÉPÔT GALVANIQUE DE COUCHES D'ALLIAGE DE ZINC

Publication

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Application

EP 07726121 A 20070621

Priority

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- EP 06012766 A 20060621
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Abstract (en)

[origin: EP1870495A1] Aqueous alkaline, cyanide free electrolyte bath (A) for depositing zinc and zinc alloy coatings on substrate surfaces comprises a zinc ion source and optionally a source for additional metal ions; hydroxide ions; a soluble polymer (I); and at least a pyridinium compound (Q). Aqueous alkaline, cyanide free electrolyte bath (A) for depositing zinc and zinc alloy coatings on substrate surfaces comprises a zinc ion source and optionally a source for additional metal ions; hydroxide ions; a soluble polymer (I) of formula $((-N^{+}(R_1)(R_2)-(CH_2)_m-NH-C(=O)-NH-(CH_2)_n-N^{+}(R_3)(R_4)-(R_5)_n)(2nX^{-}))$; and at least a pyridinium compound (Q) of formula (II) or (III). In formula (I): R_1-R_4 optionally substituted 1-6C-hydrocarbon or $-CH_2CH_2(OCH_2CH_2)_y-OH$; m : 1-5; n : greater than 1; y : 0-6; $R_5-(CH_2)_p$, $-(CH_2)_2-O-(CH_2)_2$ - or $-(CH_2)_2-O-(CH_2)_2-O-(CH_2)_2$ -; p : 2-12; and X^{-} counter ion. In formula (II) and (III): R_1 optionally substituted, saturated, aliphatic or araliphatic 1-12C-hydrocarbon, preferably methylene or pyridinium group; R_{1a} : optionally substituted, optionally saturated, aliphatic or araliphatic bivalent 1-12C-hydrocarbon, preferably methylene or pyridinium group; X_1^{+} , $X_2-NR_xR_y$; R_x , R_y H or 1-12C-alkyl; and Y_1^{-} counter ion, preferably halo or pseudohalo. An independent claim is included for a method for galvanic deposition of glossy and uniform zinc or zinc alloy coating comprising bringing a substrate to be coated into (A). [Image].

IPC 8 full level

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