

Title (en)

METHOD FOR DARKENING A SUPERFICIAL LAYER WHICH CONTAINS ZINC AND WHICH IS OF A MATERIAL PIECE

Title (de)

VERFAHREN ZUM ABDUNKELN EINER OBERFLÄCHENSCHICHT EINES MATERIALSTÜCKES, DIE ZINK ENTHÄLT

Title (fr)

PROCEDE POUR RENDRE PLUS SOMBRE UNE COUCHE SUPERFICIELLE, CONTENANT DU ZINC, D'UN MORCEAU DE MATIERE

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Application

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Abstract (en)

[origin: US2005126921A1] The invention relates to a method for darkening a superficial layer of a workpiece which contains zinc by anodic oxidation. The workpiece is oxidized in a soaking bath containing an aqueous solution comprised of a hydroxide and of a nitrate. The anodic oxidation may be carried out in an aqueous solution containing NH.sub.4 NO.sub.3 or NaNO.sub.3, and having a pH value ranging from 8 to 14, at a dipping bath temperature (T) ranging from 15 to 45.degree. C., and with a current density (i) ranging from 3.times.10.sup.-4 to 0.5 A/cm.sup.2. The workpiece is placed in the soaking bath at the beginning of the anodic oxidation after the voltage has already been applied.

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C25D 11/34

IPC 8 full level

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