

Title (en)

METHOD FOR DARKENING A ZINCIFEROUS SURFACE LAYER OF A PIECE OF MATERIAL

Title (de)

VERFAHREN ZUM ABDUNKELN EINER OBERFLÄCHENSCHICHT EINES MATERIALSTÜCKES, DIE ZINK ENTHÄLT

Title (fr)

PROCEDE POUR RENDRE PLUS SOMBRE UNE COUCHE SUPERFICIELLE D'UN OBJET, CETTE COUCHE CONTENANT DU ZINC

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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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