

Title (en)

Electrolyte composition and method for the deposition of quaternary copper alloys

Title (de)

Zusammensetzung eines Elektrolyten und Verfahren zur Beschichtung von quaternären Kupferlegierungen

Title (fr)

Composition d'un électrolyte et méthode de dépôt d'alliages quaternaires de cuivre

Publication

EP 1930478 B1 20130619 (EN)

Application

EP 06025184 A 20061206

Priority

EP 06025184 A 20061206

Abstract (en)

[origin: EP1930478A1] The present invention relates to an electrolyte composition as well as a method for the deposition of a quaternary copper alloy on a substrate. The electrolyte composition according to the invention comprises besides the alloying metals copper, tin and zinc, at least one metal from the group consisting of indium, gallium and thallium. The electrolyte composition according to the invention enables to deposit white bronze layers which present a high corrosion resistance and hardness and are free of noxious heavy metals.

IPC 8 full level

C25D 3/56 (2006.01); **C25D 3/58** (2006.01)

CPC (source: EP)

C25D 3/56 (2013.01); **C25D 3/58** (2013.01); **C25D 3/40** (2013.01)

Cited by

WO2015039152A1; FR3118067A1; FR3112559A1; ITUB20152876A1; EP3150744A1; WO2015000010A1; WO2022128608A1; WO2017021916A3; WO2017086819A3; WO2022012993A1; EP3540097A1; WO2019175270A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 1930478 A1 20080611; EP 1930478 B1 20130619

DOCDB simple family (application)

EP 06025184 A 20061206