

Title (en)

Copper-tin electrolyte and method for depositing bronze layers

Title (de)

Kupfer-Zinn-Elektrolyt und Verfahren zur Abscheidung von Bronzeschichten

Title (fr)

Electrolyte de cuivre-étain et procédé pour le dépôt de couches de bronze

Publication

EP 1961840 B1 20091230 (DE)

Application

EP 07003097 A 20070214

Priority

EP 07003097 A 20070214

Abstract (en)

[origin: EP1961840A1] Non-toxic electrolyte for electroplating consumer goods and technical equipment with bronze contains copper, tin and optionally zinc, all as water-soluble salts, and one or more phosphonic acid derivatives as complex formers. It is free from cyanides, thiourea derivatives and thiol derivatives. An independent claim is included for a method for electroplating consumer goods and technical equipment with bronze in which they are immersed in an electrolyte as described.

IPC 8 full level

C25D 3/58 (2006.01)

CPC (source: EP US)

C25D 3/58 (2013.01 - EP US)

Cited by

DE102013226297B3; WO2013092314A1; WO2015039152A1; WO2015091854A3; WO2015091201A1; DE202021004169U1;
DE102021117095A1; WO2023275215A1

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DE 502007002479 D1 20100211; HK 1137785 A1 20100806; JP 2010518260 A 20100527; PL 1961840 T3 20100630;
TW 200844266 A 20081116; US 2010147696 A1 20100617; US 8211285 B2 20120703; WO 2008098666 A1 20080821

DOCDB simple family (application)

EP 07003097 A 20070214; AT 07003097 T 20070214; CN 200880006953 A 20080124; DE 502007002479 T 20070214;
EP 2008000534 W 20080124; HK 10102901 A 20100319; JP 2009549787 A 20080124; PL 07003097 T 20070214; TW 97101536 A 20080115;
US 52672708 A 20080124