

Title (en)

Palladium-silver alloys electroplating bath

Title (de)

Bad zum galvanischen Abscheiden von Palladium-Silber-Legierungen

Title (fr)

Bain pour le dépôt électrolytique d'alliages Palladium-Argent

Publication

EP 0693579 B1 19970827 (DE)

Application

EP 95107534 A 19950518

Priority

- DE 4425813 A 19940721
- DE 4444232 A 19941213

Abstract (en)

[origin: EP0693579A1] An aq. ammoniacal bath for the electrolytic deposition of Pd/Ag alloys contains (A) 5-50 g/l Pd as a Pd-ammine complex, (B) 2-40 g/l Ag as an Ag cpd., (C) 30-150 g/l conductive salt, (D) 5-100 g/l aliphatic polyamine(s) with 2-10 amino gps. and (E) 2-50 g/l mercaptoalkane carboxylic and/or sulphonic acid and/or salts thereof, adjusted to pH 7.0-10.0 with NH₄OH. Pref. bath consists of water contg. 5-20 g/l (A), 2-30 g/l (B), 50-1090 g/l (C), 5-100 g/l (D) and 2-20 g/l (E). Complex (A) is Pd-diammine dichloride, dibromide or dinitrite, and cpd. (B) is AgCl, AgNO₃, Ag₂SO₄ or an Ag-diammine complex. Polyamine (D) is a 2-6C alkylenediamine, pref. ethylene- and/or hexamethylene-diamine, or a polyethylene-amine of formula H₂N-(CH₂CH₂NH)_n-H (n = 2-5), pref. diethylene-triamine, triethylene-tetramine and/or pentaethylene-hexamine, or a mixt. of ethylenediamine and triethylenetetramine. Component (C) consists of carboxylic acids and/or salts thereof, and/or ammonium salts of inorganic acids. Component (E) is 2- or 3-mercaptopropionic acid or 3-mercaptopropane- sulphonic acid.

IPC 1-7

C25D 3/56; **C25D 3/64**

IPC 8 full level

C25D 3/56 (2006.01); **C25D 3/64** (2006.01)

CPC (source: EP US)

C25D 3/567 (2013.01 - EP US); **C25D 3/64** (2013.01 - EP US)

Cited by

US6165342A; EP0921212A1; WO9803700A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0693579 A1 19960124; **EP 0693579 B1 19970827**; US 5549810 A 19960827

DOCDB simple family (application)

EP 95107534 A 19950518; US 50358995 A 19950718