Title (en)

ELECTROLYTE FOR THE ELECTROCHEMICAL DEPOSITION OF GOLD ALLOYS AND PROCESS FOR THE PRODUCTION THEREOF

Title (de)

ELEKTROLYT FÜR DIE GALVANISCHE ABSCHEIDUNG VON GOLD-LEGIERUNGEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

ÉLECTROLYTE POUR DÉPÔT PAR VOIE GALVANIQUE D'ALLIAGES D'OR ET SON PROCÉDÉ DE PRODUCTION

Publication

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Application

EP 11799631 A 20111207

Priority

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- EP 2011006155 W 20111207

Abstract (en)

[origin: WO2012076174A2] The present invention relates to cyanide-free electrolytes for the electrochemical deposition of binary and polynary alloys of gold, which contain an alkaline solution of anionic thiolate complexes of gold and metals which form alloys with gold. These electrolytes can be produced in a simple, environmentally friendly and economical way from commercially available aqueous solutions of sulphite complexes of gold and a number of salts of the corresponding alloy-forming metals, by addition of the thiols and setting of an alkaline pH of the electrolytic bath. The electrolytes display long-term stability and can be used for the electrochemical deposition of gold alloys. The present invention likewise relates to a process for producing the electrolytes mentioned.

IPC 8 full level

C25D 3/62 (2006.01)

CPC (source: EP)

C25D 3/62 (2013.01)

Citation (search report)

See references of WO 2012076174A2

Citation (examination)

- US 4048023 A 19770913 - STEVENS PETER
- US 6565732 B1 20030520 - KITADA KATSUTSUGU [JP], et al
- DE 2744962 A1 19790419 - OXY METAL INDUSTRIES CORP

Cited by

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