

Title (en)

Galvanic baths for obtaining a low-carat gold alloy, and galvanic process that uses said baths

Title (de)

Galvanische Bäder zur Herstellung einer niederkarätigen Goldlegierung und galvanischer Prozess diese Bäder verwendend

Title (fr)

Bains galvaniques pour obtenir un alliage d'or de bas carat, et procédé galvanique qui utilise ces bains

Publication

**EP 2669407 A1 20131204 (EN)**

Application

**EP 13170067 A 20130531**

Priority

IT FI20120103 A 20120601

Abstract (en)

What is described are galvanic baths containing gold salts, copper salts and indium salts, which make it possible to obtain a precise carat value in the 12 - 18-carat range, suitable thicknesses, uniform deposit and colour tending towards the yellow typical of a gold deposit.

IPC 8 full level

**C25D 3/62** (2006.01); **C25D 7/00** (2006.01)

CPC (source: EP)

**C25D 3/62** (2013.01); **C25D 7/005** (2013.01)

Citation (applicant)

- US 4358351 A 19821109 - SIMON FRANZ, et al
- US 4487664 A 19841211 - DORBATH BERND [DE], et al
- US 5085744 A 19920204 - BRASCH WILLIAM R [US]
- US 4687557 A 19870818 - EMMENEGGER HEINZ [CH]

Citation (search report)

- [X] WO 2009037180 A1 20090326 - ALIPRANDINI G [CH], et al
- [X] JP 2000319794 A 20001121 - SEIKO CORP
- [X] EP 2135972 A1 20091223 - CITIZEN TOHOKU CO LTD [JP]
- [A] US 3878066 A 19750415 - DETTKE MANFRED, et al
- [A] US 3883409 A 19750513 - OLIVIER ANDRE
- [A] US 4088549 A 19780509 - DEUBER JOHN MARTIN, et al
- [A] EP 0188386 A2 19860723 - ENGELHARD CORP [US]
- [A] US 2006283714 A1 20061221 - EGLI ANDRE [CH], et al
- [A] US 3174918 A 19650323 - CORNELL RINKER EDWIN, et al
- [A] GB 2028873 A 19800312 - LEA RONAL UK LTD
- [A] US 6165342 A 20001226 - KUHN WERNER [DE], et al

Cited by

CN109504991A; EP3023520A1; EP2990507A1; CN106661751A; WO2016020812A1; WO2016030290A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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