

Title (en)

Palladium electroplating bath and process for electroplating

Title (de)

Palladium-Elektroplatierungsbad und Verfahren zur Elektroplatierung

Title (fr)

Bain pour l'electrodeposition de palladium et processus pour l'electrodeposition

Publication

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Application

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Priority

US 59023400 A 20000608

Abstract (en)

An electroplating bath includes a metal-sulfonic acid complex wherein the metal is a precious metal, and free sulfonic acid. The precious metals include Pd, Au, Hard Au (with Ni or Co as hardening agents), Pt, Rh, Ru, Ag and alloys thereof. <IMAGE>

IPC 1-7

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IPC 8 full level

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Citation (search report)

- [X] US 4244739 A 19810113 - CAGNASSI ROBERTO
- [X] US 4465563 A 19840814 - NOBEL FRED I [US]
- [PX] WO 0056952 A1 20000928 - TECHNIC [US], et al
- [PX] US 6165342 A 20001226 - KUHN WERNER [DE], et al
- [XA] US 4673472 A 19870616 - MORRISSEY RONALD J [US], et al
- [E] US 6251249 B1 20010626 - CHEVALIER JEAN W [US], et al
- [PX] DE 19928047 A1 20001221 - HOFFACKER GERHARD [DE]
- [A] US 4098656 A 19780704 - DEUBER JOHN MARTIN
- [X] PATENT ABSTRACTS OF JAPAN vol. 1998, no. 13 30 November 1998 (1998-11-30) & US 6099713 A 20000808 - YANADA ISAMU [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06 28 June 1996 (1996-06-28)
- [X] MASAKI S: "Mirror-Bright Silver Plating from a Cyanide-Free Bath", METAL FINISHING, ELSEVIER SCIENCE PUBLISHING, NEW YORK, NY, US, vol. 96, no. 1, 1998, pages 16,18 - 20, XP004113126, ISSN: 0026-0576
- [X] TETSUYA KONDO ET AL: "SILVER PLATING FROM SILVER METHANESULFONATE-POTASSIUM IODIDE BATH", METAL FINISHING, ELSEVIER SCIENCE PUBLISHING, NEW YORK, NY, US, vol. 89, no. 10, 1 October 1991 (1991-10-01), pages 32 - 36, XP000261679, ISSN: 0026-0576

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