

Title (en)

Baths or organic sulfonate solution for bismuth and bismuth alloy plating.

Title (de)

Bäder auf Basis von einer ein organisches Sulphonat enthaltenden Lösung für das Plattieren von Wismut und Wismutlegierungen.

Title (fr)

Bains à base d'une solution comportant un sulfonate organique pour le dépôt de bismuth et des alliages de bismuth.

Publication

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Application

EP 86113044 A 19860922

Priority

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Abstract (en)

A bismuth or bismuth alloy plating bath comprises as essential ingredients an organic sulfonic acid of the general formula (I) $(X_1)_n-R-SO_3H$ (I) wherein R is a C1-5 alkyl radical, X1 is a halogen atom or hydroxyl, aryl, alkylaryl, carboxyl, or sulfonyl radical which may be in any optional position of the alkyl radical, and n is an integer of 0 to 3, or of the formula (II) $\langle CHEM \rangle$ wherein X2 is a halogen atom or hydroxyl, alkyl, aryl, alkylaryl, aldehyde, carboxyl, nitro, mercapto, sulfonyl, or amino radical, or two X2's which may combine with a benzene ring to form a naphthalene ring, and m is an integer of 0 to 3, and a bismuth salt of the acid or a mixture of the bismuth salt of the acid and one or more other metal salts of the acid.

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Citation (search report)

- [X] CHEMICAL ABSTRACTS, vol. 76, no. 14, 3rd April 1972, page 573, 80287f, Columbus, Ohio, US; SU-A-322 414 (KHARKOV CONSTRUCTION-ENGINEERING INSTITUTE) 30-11-1971
- [X] CHEMICAL ABSTRACTS, vol. 76, no. 14, 3rd April 1972, page 573, 80287f, Columbus, Ohio, US; SU-A-322 414 (KHARKOV CONSTRUCTION-ENGINEERING INSTITUTE) 30-11-1971
- [X] GALVANOTECHNIK, vol. 66, no. 7, 1975, page 50; S. SRIVEERARAGHAVAN: "Galvanische Abscheidung von Wismut"
- METAL FINISHING, vol. 61, no. 5, May 1963, pages 58,59; J.A. McCARTHY: "Bismuth plating on steel from alkaline electrolytes"

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EP0397663A4; DE102005016819B4; EP1308540A1; AU632464B2; US2022380921A1; US11913128B2; US6736954B2; WO9307309A1

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