

Title (en)

Disposable cell for recovering conductive metal and method of use.

Title (de)

Wegwerfzelle zur Rückgewinnung von leitfähigen Metallen und deren Bedienungsanweisung.

Title (fr)

Cellule perdue pour la récupération de métaux conducteurs et sa méthode d'utilisation.

Publication

EP 0342969 A1 19891123 (EN)

Application

EP 89305012 A 19890517

Priority

- US 19656088 A 19880520
- US 32799889 A 19890323

Abstract (en)

An apparatus and method for recovering a conductive metal from a liquid which contains that metal, and a method for recovering that metal using that apparatus. The apparatus includes a generally closed non-metallic recovery container (12) defining a cavity, for containing the liquid. A first electrode (16) is supported and affixed within the cavity. A second electrode is composed of a thin film (12b) applied to the inside surface of the recovery container (12), the film including as its main constituent the same metal as that to be recovered from the solution. Finally, a power supply (20) is electrically connected, positive to the first electrode and negative to the second electrode, thus causing the metal from the solution to be deposited on the film electrode, lining the inside surface of the recovery container with the metal to be recovered. In one embodiment the apparatus includes a separate holding container for holding the solution, and the recovery container is placed in liquid communication with the holding container. During the reaction, solution is circulated from the holding container into the recovery container and back by a pump. The recovery container may be mounted above the holding container, and the center electrode tubular, to be used as part of the return path of the solution to the holding container.

IPC 1-7

C25C 1/20; **C25C 7/00**

IPC 8 full level

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CPC (source: EP)

C25C 1/20 (2013.01); **C25C 7/00** (2013.01); **C25C 7/06** (2013.01)

Citation (search report)

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