

Title (en)

Process for winning a metal by electrolysis of molten halogenides whereby a simultaneous and continuous double disposition is taking place, and apparatus therefor.

Title (de)

Verfahren zur Gewinnung eines Metalls durch Elektrolyse von geschmolzenen Halogeniden mit gleichzeitigem und fortlaufendem Doppelniederschlag und Vorrichtung dafür.

Title (fr)

Procédé d'obtention d'un métal par électrolyse d'halogénures en bain de sels fondus comportant un double dépôt simultané et continu et dispositifs d'application.

Publication

EP 0156744 A1 19851002 (FR)

Application

EP 85420040 A 19850311

Priority

FR 8403967 A 19840312

Abstract (en)

[origin: ES8602967A1] Electrolytic winning of metal from a bath contg. the metal halides is carried out by passing a first current I, between a central anode and a surrounding cathode shaped in the form of a basket until the basket is 1/3-2/3 full of deposited metal and at the same time a second current I, is passed between the basket and an auxiliary cathode(s) placed outside the basket to deposit metal on the cathode. The halide is regularly fed into the bath between anode and basket and basket and auxiliary cathode. The amt. of metal is 1-7 wt.%. The auxiliary cathode is periodically extracted and replaced with another.

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Abstract (fr)

L'invention concerne un procédé et une cellule d'électrolyse pour l'obtention d'un métal par électrolyse d'halogénures en bain de sels fondus. Elle consiste à utiliser une cathode en forme de panier (14), à faire passer simultanément un courant I1 entre cette cathode et l'anode (10) de manière à effectuer un premier dépôt de métal brut dans la panier et un courant I2 entre ledit panier et des cathodes complémentaires (29, 23) pour déposer sur celle-ci le métal final. La cellule comprend un ensemble anodique central (10), un panier cathodique tubulaire (14) entourant l'anode et une série de cathodes (29, 23) entourant ce panier, disposition qui peut être inversée par rapport au panier. L'invention trouve son application dans la fabrication en continu d'un métal réfractaire de bonne qualité avec un rendement matière et électrique convenable.

IPC 1-7

C25C 3/00; **C25C 3/26**; **C25C 7/00**

IPC 8 full level

C25C 3/00 (2006.01); **C25C 3/26** (2006.01); **C25C 7/00** (2006.01); **C25C 7/02** (2006.01); **C25C 7/06** (2006.01); **C25C 7/08** (2006.01)

CPC (source: EP US)

C25C 3/00 (2013.01 - EP US); **C25C 3/26** (2013.01 - EP US); **C25C 7/005** (2013.01 - EP US)

Citation (search report)

- [Y] EP 0053567 A1 19820609 - PECHINEY [FR]
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- [AD] US 3282822 A 19661101 - PRISCU JOHN C

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CN110079834A; CN102575364A; EP1652971A4; CN108728870A; US7635421B2; WO2010126597A1; US8460535B2; US8795506B2

Designated contracting state (EPC)

AT DE GB IT NL SE

DOCDB simple family (publication)

EP 0156744 A1 19851002; **EP 0156744 B1 19880511**; AT E34189 T1 19880515; AU 3970785 A 19850919; AU 571661 B2 19880421; BR 8501063 A 19851029; CA 1251160 A 19890314; DE 3562632 D1 19880616; ES 541142 A0 19851201; ES 542730 A0 19851216; ES 8602967 A1 19851201; ES 8603590 A1 19851216; FR 2560896 A1 19850913; FR 2560896 B1 19891020; JP S60211092 A 19851023; JP S6353275 B2 19881021; NO 167308 B 19910715; NO 167308 C 19911023; NO 850950 L 19850913; US 4588485 A 19860513

DOCDB simple family (application)

EP 85420040 A 19850311; AT 85420040 T 19850311; AU 3970785 A 19850311; BR 8501063 A 19850311; CA 476312 A 19850312; DE 3562632 T 19850311; ES 541142 A 19850311; ES 542730 A 19850430; FR 8403967 A 19840312; JP 4918385 A 19850312; NO 850950 A 19850311; US 70852085 A 19850305