Title (en)

Process and apparatus for the continuous manufacture of lithium by electrolysis of lithium chloride.

Title (de)

Verfahren und Vorrichtung zur kontinuierlichen Herstellung von Lithium durch Elektrolyse von Lithiumchlorid.

Title (fr)

Procédé et Appareillage pour la préparation en continu de lithium par électrolyse du chlorure de lithium.

Publication

EP 0230171 A1 19870729 (FR)

Application

EP 86402645 A 19861128

Priority

FR 8518483 A 19851213

Abstract (en)

[origin: US4724055A] Lithium metal is continuously prepared, in specially adapted electrolytic cell, by (i) continuously electrolyzing a mixture of molten salts including lithium chloride, said mixture comprising the medium of electrolysis, (ii) continuously withdrawing admixture of product lithium metal with said mixture of molten salts, and (iii) continuously discharging formed chlorine gaseous phase therefrom, wherein the medium of electrolysis is maintained at a temperature ranging from the melting point of said mixture of molten salts, at the eutectic composition thereof, to 400 DEG C., and said gaseous chlorine phase is maintained at a temperature not exceeding 300 DEG C.

Abstract (fr)

Procédé de préparation du lithium par électrolyse du chlorure de lithium en milieu sels fondus avec circulation naturelle du milieu d'électrolyse ; le lithium est récupéré en continu dans un mélange de sels fondus ; la température du bain d'électrolyse est inférieure à 400°C ; celle de la phase gazeuse constituée par le chlore ne dépasse pas 300°C.

IPC 1-7

C25C 3/02

IPC 8 full level

C25C 3/02 (2006.01); **C25C 7/00** (2006.01)

CPC (source: EP US)

C25C 3/02 (2013.01 - EP US)

Citation (search report)

- [AD] EP 0156668 A1 19851002 - RHONE POULENC SPEC CHIM [FR]
- [A] US 2755244 A 19560717 - HARVEY CLARENCE C

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CN101760759A

Designated contracting state (EPC)

BE DE GB IT NL

DOCDB simple family (publication)

FR 2591615 A1 19870619; **FR 2591615 B1 19880219**; DE 3668916 D1 19900315; EP 0230171 A1 19870729; EP 0230171 B1 19900207; JP S62142797 A 19870626; US 4724055 A 19880209

DOCDB simple family (application)

FR 8518483 A 19851213; DE 3668916 T 19861128; EP 86402645 A 19861128; JP 29511486 A 19861212; US 94131486 A 19861215