Title (en)

PROCESS FOR THE CONTINUOUS PRODUCTION OF LITHIUM BY ELECTROLYSIS OF LITHIUM CHLORIDE IN A MOLTEN SALT MIXTURE, AND APPARATUS FOR CARRYING OUT SAID PROCESS

Publication

EP 0107521 B1 19870701 (FR)

Application

EP 83401664 A 19830816

Priority

FR 8214865 A 19820831

Abstract (en)

[origin: EP0107521A1] 1. Process for the continuous preparation of lithium or of lithium-calcium alloys by electrolysis, at constant bath level, of lithium chloride or of a mixture of lithium chloride and calcium chloride in a mixture of molten salts, with continuous removal by overflow at the surface of the bath of the lithium or the lithium-calcium alloy formed mixed with molten salts and continuous recovery of an undiluted gaseous chlorine formed, the said process being characterized in that : - the electrolysis is performed with a natural circulation of the electrolysis medium between the anode and the cathode without the use of a diaphragm between these ; - the anode is surrounded by the cathode and sheathed with an electrically insulating refractory material on its part rising above the surface of the electrolysis medium and down to below this surface ; and - the removal of the lithium or the lithium-calcium alloy formed mixed with molten salts is performed in the presence of undiluted gaseous chlorine.

IPC 1-7

C25C 3/02

IPC 8 full level

C25C 3/02 (2006.01)

CPC (source: EP)

C25C 3/02 (2013.01)

Citation (examination)

ELECTROCHEMICAL TECHNOLOGY, vol. 1, no. 3-4, mars-avril 1963, pages 122-127. G. T. MOTOCK: "Electrolysis of lithium chloride in the 1000-amperes cell"

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

FR 2532332 A1 19840302; **FR 2532332 B1 19860404**; CA 1202596 A 19860401; DE 3372295 D1 19870806; EP 0107521 A1 19840502; EP 0107521 B1 19870701; JP S5985880 A 19840517

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