

Title (en)

Process for terminating anode effects during the production of aluminum.

Title (de)

Verfahren zur Begrenzung von Anodeneffekten bei der Produktion von Aluminium.

Title (fr)

Procédé pour la terminaison des effets anodiques au cours de la production de l'aluminium.

Publication

EP 0353943 A1 19900207 (EN)

Application

EP 89307626 A 19890727

Priority

CA 573886 A 19880804

Abstract (en)

The invention relates to a method of quenching (or terminating) anode effects which arise during the production of aluminum by fused salt electrolysis in a cell containing a molten electrolyte including alumina and a plurality of carbon-containing anodes dipping into the electrolyte. The method involves dividing at least 25% of the total number of anodes into groups of adjacent anodes located at different positions longitudinally of the cell, moving at least one of the groups upwardly and the remainder downwardly to "pump" the cell, the upwardly moving groups alternating with the downwardly moving groups in the longitudinal direction of the cell, and adding alumina to the cell. The anodes are returned to their original operating positions and, if the anode effect has not been quenched, are again moved in the same or opposite pattern. High quenching efficiency can be achieved by the method of the invention with minimal variations in the surface level of the molten electrolyte.

IPC 1-7

C25C 3/12; C25C 3/20

IPC 8 full level

C25C 3/06 (2006.01)

CPC (source: EP)

C25C 3/06 (2013.01)

Citation (search report)

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- [A] FR 2083362 A1 19711217 - INST POLITEHNIC TI
- [AD] EP 0086593 A1 19830824 - ALCAN INT LTD [CA]

Cited by

US6866767B2; WO2004038069A1

Designated contracting state (EPC)

CH DE ES FR GB LI NL

DOCDB simple family (publication)

EP 0353943 A1 19900207; AU 3926089 A 19900208; BR 8903916 A 19900327; CN 1040065 A 19900228; NO 893153 D0 19890803; NO 893153 L 19900205

DOCDB simple family (application)

EP 89307626 A 19890727; AU 3926089 A 19890803; BR 8903916 A 19890803; CN 89106670 A 19890803; NO 893153 A 19890803