

Title (en)

Process for the production of alkali metal chlorate and apparatus therefor.

Title (de)

Verfahren zur Herstellung von Alkalimetall-Chlorat und Vorrichtung zur deren Durchführung.

Title (fr)

Procédé de fabrication de chlorate de métal alcalin et dispositif pour sa mise en oeuvre.

Publication

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Application

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Priority

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Abstract (en)

Process for the preparation of an alkali metal chlorate by electrolysis in a diaphragm cell (3) of an anolyte comprising a solution of alkali metal chloride and of a catholyte comprising a solution of alkali metal hydroxide, the solution of alkali metal chloride being purified beforehand by the succession of the following stages: - electrolysis in a cell of the "chloralkali" type (1) of an alkali metal chloride brine to form, on the one hand, gaseous chlorine and, on the other hand, a concentrated solution of alkali metal hydroxide, - transfer of the gaseous chlorine and of the alkali metal hydroxide solution which are produced into a scrubbing column (2) to react them with each other, and - recovery of the saline solution thus obtained for its use as anolyte in the diaphragm cell (3). The invention also relates to a device for making use of this process and a device for purifying an alkali metal chloride brine. <IMAGE>

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- [A] US 4405418 A 19830920 - TAKEMURA REIJI [JP]
- [A] Week 8244, Derwent Publications Ltd., London, GB; AN 82-94068 & JP-A-57 156 326 (TOA GOSEI CHEM IND LTD) 27 Septembre 1982

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