

Title (en)

LOW CURRENT DENSITY ELECTROLYTIC CELL AND METHOD OF MANUFACTURING SAME

Title (de)

ELEKTROLYSEZELLE MIT NIEDRIGER STROMDICHTHE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

CELLULE ELECTROLYTIQUE A FAIBLE DENSITE DE COURANT ET SON PROCEDE DE FABRICATION

Publication

EP 1048093 A1 20001102 (EN)

Application

EP 99969981 A 19991104

Priority

- US 9926107 W 19991104
- US 10713698 P 19981105

Abstract (en)

[origin: WO0030187A2] An electrolytic cell (1) and method for decreasing the power consumption of an electrolytic cell (1) having a fixed designed current capacity in one aspect comprises refitting an electrolytic cell (1) with additional cathodes and anodes to lower the overall current density of the cell. In order to accommodate the additional anodes, the cathode-to-cathode spacing (CS) can be reduced and the cathodes can also be reconfigured to provide a narrower cathode tube structure (11). This can be accomplished by decreasing the spacing between opposed cathode plates (12). This modification permits operation of the cell (1) at the original designed current capacity at a significantly reduced power consumption. New cell manufacture is also contemplated.

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H01M 16/00

IPC 8 full level

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