

Title (en)

ELECTROLYSIS CELL WITH AN ELECTROLYTE FLOW-THROUGH MIDDLE CHAMBER, AND MIDDLE CHAMBER STRUCTURE THEREFOR

Publication

EP 0051845 B1 19840919 (DE)

Application

EP 81109469 A 19811031

Priority

- DE 3041799 A 19801106
- DE 3041823 A 19801106

Abstract (en)

[origin: US4443316A] The economy of production of hydrogen and sulfuric acid in a three chamber electrolysis cell in which an electrolyte flows through the intermediate chamber (11) which is bounded by ion exchanger membranes (9,10) can be improved by the provision of a porous supporting framework or skeleton (12) of graphite or of ion exchanger material against which the separators with the electrodes (7, 8) on them, can be pressed. The overall internal resistance of the cell can thus be reduced and its mechanical behavior improved. Substantial through passage porosity is desired in the supporting structure, which may be of graphite, but porous aggregates of ion exchanger material with fixedly applied or welded on separators in the form of stacked layers or rolled mats, are preferred for the relative simplicity of their provision in practice.

IPC 1-7

C25B 9/00; **C25B 13/02**

IPC 8 full level

C25B 9/19 (2021.01); **C25B 13/00** (2006.01)

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