

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)

CPC (source: EP US)

**C25B 9/19** (2021.01 - EP US); **C25B 13/00** (2013.01 - EP US)

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

**EP 0051845 A1 19820519**; **EP 0051845 B1 19840919**; CA 1172604 A 19840814; US 4443316 A 19840417

DOCDB simple family (application)

**EP 81109469 A 19811031**; CA 389466 A 19811105; US 31845781 A 19811105