

Title (en)

Process for manufacturing a porous diaphragm for an electrolytic cell.

Title (de)

Verfahren zur Herstellung eines durchlässigen Diaphragmas für eine Elektrolysezelle.

Title (fr)

Procédé de fabrication d'un diaphragme perméable pour cellule d'électrolyse.

Publication

EP 0018034 A1 19801029 (FR)

Application

EP 80200312 A 19800408

Priority

FR 7909835 A 19790417

Abstract (en)

1. Process for the manufacture of a permeable diaphragm, in situ, on a perforated cathode of a cell for the electrolysis of aqueous solutions of alkali metal halides, in which an aqueous suspension of asbestos fibres and of a thermoplastic polymer in the divided solid state is prepared, the suspension is sucked through the perforated cathode in order to form thereon a sheet containing the fibres and the polymer, and the sheet is heated on the support in order to melt the polymer, characterized in that the polymer used is selected from amongst polymers derived from unsubstituted alpha-olefines containing from 2 to 10 carbon atoms in their molecule, and in that, before the suspension is sucked through the perforated cathode, the polymer is subjected to an oxidation treatment controlled so as to produce a proportion of at least 0,5 % by weight of active oxygen in the polymer.

Abstract (fr)

L'invention a pour objet un procédé de fabrication d'un diaphragme perméable pour cellule d'électrolyse. Le procédé consiste à former une feuille comprenant des fibres inorganiques et un polymère thermoplastique sous forme solide divisée et à chauffer ladite feuille pour fondre le polymère, ce dernier étant soumis à un traitement d'oxydation avant sa fusion. Les diaphragmes ainsi obtenus conviennent notamment pour les cellules d'électrolyse de saumures de chlorure de sodium.

IPC 1-7

C25B 13/04

IPC 8 full level

C25B 13/06 (2006.01); **C25B 13/04** (2006.01)

CPC (source: EP)

C25B 13/04 (2013.01)

Citation (search report)

US 4065534 A 19771227 - RECHLICZ THOMAS A, et al

Cited by

EP0078901A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0018034 A1 19801029; EP 0018034 B1 19831130; AT E5489 T1 19831215; AU 5708280 A 19801023; BR 8002359 A 19801202; DE 3065747 D1 19840105; FR 2454362 A1 19801114; FR 2454362 B1 19820305; JP S55148788 A 19801119; ZA 801935 B 19810429

DOCDB simple family (application)

EP 80200312 A 19800408; AT 80200312 T 19800408; AU 5708280 A 19800402; BR 8002359 A 19800416; DE 3065747 T 19800408; FR 7909835 A 19790417; JP 4909480 A 19800414; ZA 801935 A 19800401