

Title (en)

Improved dimensionally stable asbestos-polytetrafluoroethylene diaphragms for chlor-alkali electrolytic cells.

Title (de)

Dimensionsstabile Asbest-Polytetrafluoräthylen-Diaphragmen für Chloralkalielektrolysezellen.

Title (fr)

Diaphragmes en amiante-polytétrafluoroéthylène dimensionnellement stables pour cellules d'électrolyse chloroalcaline.

Publication

EP 0048617 A1 19820331 (EN)

Application

EP 81304327 A 19810921

Priority

US 18903680 A 19800922

Abstract (en)

In making diaphragms and diaphragm-coated electrodes for electrolytic cells, such as those used for the electrolysis of brine to produce chlorine and caustic soda or caustic potash, by depositing a slurry of asbestos fibres and polytetrafluoroethylene on a substrate and heating to dry the resultant mat and fuse the polytetrafluoroethylene, the latter is in the form of fibrils made by applying a compressive shear action to particles and the heating step is carried out so that the polytetrafluoroethylene fibrils are fused and cause to shrink.

IPC 1-7

C25B 13/08; **C25B 13/06**; **C25B 11/00**; **C25B 1/46**

IPC 8 full level

C25B 13/06 (2006.01); **C25B 13/04** (2006.01); **D01D 5/40** (2006.01)

CPC (source: EP)

C25B 13/04 (2013.01); **D01D 5/40** (2013.01)

Citation (search report)

- AT 327957 B 19760225 - DIAMOND SHAMROCK CORP [US]
- US 4070257 A 19780124 - MOTANI KENSUKE, et al
- GB 1498733 A 19780125 - HOOKER CHEMICALS PLASTICS CORP
- GB 1410313 A 19751015 - DIAMOND SHAMROCK CORP

Cited by

EP0117841A3; CN1090252C; EP0911432A3; US6352660B1

Designated contracting state (EPC)

BE DE FR NL

DOCDB simple family (publication)

EP 0048617 A1 19820331; **EP 0048617 B1 19850220**; BR 8105955 A 19820608; CA 1207705 A 19860715; DE 3169066 D1 19850328; JP S5785985 A 19820528; MX 167581 B 19930330

DOCDB simple family (application)

EP 81304327 A 19810921; BR 8105955 A 19810917; CA 383721 A 19810812; DE 3169066 T 19810921; JP 14929581 A 19810921; MX 18924581 A 19810921