

Title (en)
ELECTRODES, ELECTRO-CHEMICAL CELLS CONTAINING SAID ELECTRODES, AND PROCESS FOR FORMING AND UTILIZING SUCH ELECTRODES

Publication
EP 0129845 B1 19881026 (EN)

Application
EP 84107101 A 19840620

Priority
US 50760483 A 19830624

Abstract (en)
[origin: EP0129845A1] The invention includes electrodes having a plurality of fibers wherein an essentially continuous metallic coating of high bond strength extends over at least a portion of each fiber, and wherein the fibers provide a large surface area. The electrodes of the invention have an efficient electrical connection at their terminals comprising fiber/metal matrices which provide the desired connections to the terminals without damage to the fibers. The fiber metal matrices also provide excellent electrical contact between all of the fibers, and inhibit wicking of the electrolyte or process stream into the electrical connections. Where the fibers are coated along a substantial portion of their length, they also have a high electrical conductivity. The invention further includes electro-chemical cells, and processes for forming and utilizing the electrodes and cells.

IPC 1-7
C25D 17/10; **C25D 7/06**; **C25D 19/00**; **C25C 7/02**; **C25C 7/00**; **C25B 11/02**; **C25B 11/12**

IPC 8 full level
C25B 11/03 (2006.01); **C25B 11/02** (2006.01); **C25B 11/12** (2006.01); **C25C 7/00** (2006.01); **C25C 7/02** (2006.01); **C25D 7/06** (2006.01); **C25D 17/10** (2006.01); **C25D 17/12** (2006.01); **C25D 19/00** (2006.01)

CPC (source: EP)
C25B 11/02 (2013.01); **C25C 7/00** (2013.01); **C25C 7/02** (2013.01); **C25D 17/10** (2013.01)

Cited by
AU2005275032B2; GB2296720A; US7378010B2; US8273237B2; US7736475B2; US7494580B2; WO9507375A1; US7591934B2; US7452455B2; US7393438B2; EP0151055B1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0129845 A1 19850102; **EP 0129845 B1 19881026**; AT E38255 T1 19881115; AU 2977284 A 19850103; AU 572858 B2 19880519; CA 1273604 A 19900904; DE 3474841 D1 19881201; DK 163310 B 19920217; DK 163310 C 19920706; DK 306984 A 19841225; DK 306984 D0 19840622; ES 533656 A0 19860116; ES 547434 A0 19861016; ES 8604321 A1 19860116; ES 8700337 A1 19861016; FI 77271 B 19881031; FI 77271 C 19890210; FI 842530 A0 19840621; FI 842530 A 19841225; HK 5691 A 19910125; IL 72209 A0 19841031; IL 72209 A 19880131; JP H0723549 B2 19950315; JP S6059092 A 19850405; KR 850004793 A 19850727; KR 900006119 B1 19900822; NO 164670 B 19900723; NO 164670 C 19901031; NO 842527 L 19841227; SG 98190 G 19910214; ZA 844777 B 19850227

DOCDB simple family (application)
EP 84107101 A 19840620; AT 84107101 T 19840620; AU 2977284 A 19840622; CA 457194 A 19840622; DE 3474841 T 19840620; DK 306984 A 19840622; ES 533656 A 19840622; ES 547434 A 19850930; FI 842530 A 19840621; HK 5691 A 19910117; IL 7220984 A 19840622; JP 12991284 A 19840623; KR 840003600 A 19840623; NO 842527 A 19840622; SG 98190 A 19901210; ZA 844777 A 19840622