

Title (en)

Production of an electroactive material based on conductive fibers and its use in the production of cathode elements.

Title (de)

Herstellung eines Elektroaktiven Werkstoffs auf Basis von stromleitfähigen Fasern und seine Anwendung zur Herstellung von kathodischen Elementen.

Title (fr)

Préparation d'un matériau électroactivé à base de fibres conductrices et son utilisation pour réaliser des éléments cathodiques.

Publication

EP 0296076 B1 19950920 (FR)

Application

EP 88420191 A 19880613

Priority

FR 8708842 A 19870619

Abstract (en)

[origin: EP0296076A1] An electroactivated material comprising fibres at least part of which is electrically conductive and a binder chosen from fluoropolymers, the said material exhibiting a resistivity lower than 0.4 ohm cm and being characterised in that it comprises at least one electrocatalytic agent uniformly distributed in its bulk, the said agent being chosen from the group consisting of Raney metals and Raney alloys from which most of the easily removable metal(s) and alloys thereof have been removed. <??>The invention also relates to composite materials formed by the combination of at least one electroactivated material and of an elementary cathode consisting of a metal surface, assembled with a diaphragm if appropriate, and a process for the manufacture of the said materials. <??>These materials can be employed especially in a cell for the electrolysis of sodium chloride.

IPC 1-7

C25B 11/04; H01M 4/98

IPC 8 full level

C25B 11/00 (2006.01); **C25B 11/03** (2006.01); **C25B 11/04** (2006.01); **C25B 11/06** (2006.01); **C25B 11/12** (2006.01)

CPC (source: EP US)

C25B 11/00 (2013.01 - EP US); **C25B 11/031** (2021.01 - EP US); **C25B 11/091** (2021.01 - EP US); **Y10T 428/26** (2015.01 - EP US); **Y10T 428/2918** (2015.01 - EP US); **Y10T 428/2982** (2015.01 - EP US); **Y10T 442/696** (2015.04 - EP US)

Cited by

US5470449A; FR2921073A1; US5092977A; US5320867A; WO2009034116A3

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0296076 A1 19881221; **EP 0296076 B1 19950920**; AT E128194 T1 19951015; CA 1340341 C 19990126; DE 3854487 D1 19951026; DE 3854487 T2 19960509; ES 2077565 T3 19951201; FR 2616809 A1 19881223; FR 2616809 B1 19910614; JP 2569267 B2 19970108; JP H06322574 A 19941122; JP H0745719 B2 19950517; JP S6415387 A 19890119; US 4940524 A 19900710

DOCDB simple family (application)

EP 88420191 A 19880613; AT 88420191 T 19880613; CA 569644 A 19880616; DE 3854487 T 19880613; ES 88420191 T 19880613; FR 8708842 A 19870619; JP 14843088 A 19880617; JP 27549293 A 19931104; US 20850388 A 19880620