

## Title (en)

ELECTROLYTIC COMPOSITION WITH POLYMER BASE FOR ELECTROCHEMICAL GENERATOR

## Title (de)

ELEKTROLYTISCHE ZUSAMMENSETZUNG AUF POLYMERBASIS FÜR ELEKTROCHEMISCHE GENERATOREN

## Title (fr)

COMPOSITION ELECTROLYTIQUE A BASE DE POLYMERES POUR GENERATEUR ELECTROCHIMIQUE

## Publication

**EP 0890192 A1 19990113 (FR)**

## Application

**EP 98900830 A 19980119**

## Priority

- CA 9800018 W 19980119
- CA 2195387 A 19970117
- CA 2221985 A 19971124

## Abstract (en)

[origin: WO9832183A1] The invention concerns an aprotic electrolytic composition located in the separator and in at least one composite electrode containing a powder of an active electrode material, and if necessary an electronic conduction additive of an electrochemical generator. The electrolytic composition comprises a first polymer matrix consisting of a polyether and at least a second polymer matrix, macroscopically separated, and also at least an alkaline salt as well as a polar aprotic solvent: The polymer matrices are capable of being swollen by at least one of the polar aprotic solvents. The solvent or mixture of solvents is unevenly distributed between the polymer matrices. The invention also concerns an electrochemical generator comprising a negative electrode and positive electrode reversible to alkaline ions and a separator with polymer electrolyte, the electrolytic component of which is the composition described above. The invention further concerns the manufacture in two or three steps of a subassembly of an electrochemical generator by coating an electrode support with a composite electrode containing the second matrix, followed by a surface coating on the electrode resulting from the preceding step with a solution containing the first polymer matrix so as to form the separator wholly or partly.

## IPC 1-7

**H01M 2/16; H01M 6/18**

## IPC 8 full level

**H01M 2/16** (2006.01); **H01M 4/13** (2010.01); **H01M 4/133** (2010.01); **H01M 4/139** (2010.01); **H01M 4/1393** (2010.01); **H01M 4/1397** (2010.01); **H01M 6/18** (2006.01); **H01M 10/05** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/0565** (2010.01); **H01M 10/058** (2010.01); **H01M 10/40** (2006.01); **H01M 50/449** (2021.01); **H01M 50/489** (2021.01)

## CPC (source: EP US)

**H01M 6/181** (2013.01 - EP US); **H01M 50/449** (2021.01 - EP US); **H01M 50/46** (2021.01 - EP US); **H01M 50/489** (2021.01 - EP US); **Y02P 70/50** (2015.11 - EP); **Y10T 29/49108** (2015.01 - EP US); **Y10T 29/49115** (2015.01 - EP US)

## Citation (search report)

See references of WO 9832183A1

## Designated contracting state (EPC)

DE FR GB IT

## DOCDB simple family (publication)

**WO 9832183 A1 19980723**; EP 0890192 A1 19990113; JP 2000507387 A 20000613; JP 4831588 B2 20111207; US 2001041295 A1 20011115; US 6280882 B1 20010828; US 6806002 B2 20041019

## DOCDB simple family (application)

**CA 9800018 W 19980119**; EP 98900830 A 19980119; JP 53344498 A 19980119; US 14205598 A 19981214; US 87835601 A 20010612