

Title (en)

APPARATUS AND METHOD FOR MAINTAINING COMPRESSION OF THE ACTIVE AREA IN AN ELECTROCHEMICAL CELL

Title (de)

MITTEL ZUR AUFRECHTERHALTUNG VON DRUCK AUF DER AKTIVEN FLÄCHE IN EINER ELEKTROCHEMISCHEN ZELLE

Title (fr)

APPAREIL ET PROCEDE PERMETTANT D'ASSURER LA COMPRESSION DE LA ZONE ACTIVE DANS UNE CELLULE ELECTROCHIMIQUE

Publication

EP 1327273 A2 20030716 (EN)

Application

EP 01973572 A 20010927

Priority

- US 0130207 W 20010927
- US 23587200 P 20000927
- US 23562900 P 20000927
- US 23587100 P 20000927

Abstract (en)

[origin: WO0227813A2] An electrochemical cell includes a first electrode, a second electrode, a proton exchange membrane disposed between and in intimate contact with the electrodes, and a pressure pad disposed in electrical communication with the first electrode. The pressure pad is an electrically conductive sheet and is of a structure that is conformable to pressure variations within the cell. Methods of forming the pressure pad include disposing dimples or corrugations at the electrically conductive member. A method of maintaining compression within the cell includes disposing the electrically conductive member and the compression member at the first electrode, applying a load at the cell to compress the cell components, and maintaining electrical communication through the electrically conductive member.

IPC 1-7

H01M 8/02

IPC 8 full level

C25B 9/00 (2006.01); **H01G 9/016** (2006.01); **H01G 9/155** (2006.01); **H01M 2/20** (2006.01); **H01M 8/02** (2006.01); **H01M 8/10** (2006.01); **H01M 50/50** (2021.01); **H01M 8/24** (2006.01); **H01M 10/04** (2006.01)

CPC (source: EP US)

H01M 8/0228 (2013.01 - EP); **H01M 8/0247** (2013.01 - EP); **H01M 8/0254** (2013.01 - EP); **H01M 8/0271** (2013.01 - US); **H01M 8/0276** (2013.01 - EP); **H01M 8/0284** (2013.01 - EP); **H01M 10/0413** (2013.01 - EP); **H01M 10/0468** (2013.01 - EP); **H01M 50/50** (2021.01 - EP US); **H01M 8/0204** (2013.01 - EP); **H01M 8/0232** (2013.01 - EP); **H01M 8/0239** (2013.01 - EP); **H01M 8/1007** (2016.02 - EP); **H01M 8/247** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Citation (search report)

See references of WO 0227813A2

Designated contracting state (EPC)

BE CH DE FR GB IT LI

DOCDB simple family (publication)

WO 0227813 A2 20020404; **WO 0227813 A3 20021212**; **WO 0227813 A9 20030327**; AU 9313501 A 20020408; EP 1327273 A2 20030716; JP 2004510311 A 20040402

DOCDB simple family (application)

US 0130207 W 20010927; AU 9313501 A 20010927; EP 01973572 A 20010927; JP 2002531507 A 20010927