

Title (en)
NOVEL ION-CONDUCTING MATERIALS SUITABLE FOR USE IN ELECTROCHEMICAL APPLICATIONS AND METHODS RELATED THERETO

Title (de)
IONISCH LEITENDE MATERIALIEN GEEIGNET ZUR VERWENDUNG IN ELEKTROCHEMISCHEN ANWENDUNGEN UND VERFAHREN

Title (fr)
MATERIAUX CONDUCTEURS D'IONS POUR L'ELECTROCHIMIE ET PROCEDES CORRESPONDANTS

Publication
EP 1115769 A1 20010718 (EN)

Application
EP 99965719 A 19990826

Priority
• US 9919470 W 19990826
• US 9817898 W 19980828
• US 26286199 A 19990303

Abstract (en)
[origin: WO0024796A1] This invention relates to novel ion-conducting materials suitable for use as solid polymer electrolyte membranes in electrochemical applications including fuel cell systems. More specifically, these novel ion-conducting polymers are based on sulfonated polyaryletherketone polymers or sulfonated polyphenylsulfone polymers, including copolymers, or blends thereof. The present invention also describes novel processes for producing these ion-conducting materials.

IPC 1-7
C08G 14/00; **C08J 5/20**

IPC 8 full level
B01D 67/00 (2006.01); **B01D 69/14** (2006.01); **B01D 71/32** (2006.01); **B01D 71/52** (2006.01); **B01D 71/56** (2006.01); **B01D 71/62** (2006.01); **B01D 71/64** (2006.01); **B01D 71/66** (2006.01); **B01D 71/68** (2006.01); **B01D 71/82** (2006.01); **B01J 39/18** (2006.01); **B01J 47/12** (2006.01); **C08G 65/40** (2006.01); **C08G 65/48** (2006.01); **C08G 75/20** (2016.01); **C08J 5/22** (2006.01); **C08K 5/00** (2006.01); **C08L 71/00** (2006.01); **C08L 71/10** (2006.01); **C08L 81/06** (2006.01); **H01M 8/02** (2006.01); **H01M 8/0289** (2016.01); **H01M 8/10** (2006.01); **H01M 8/1025** (2016.01); **H01M 8/1027** (2016.01); **H01M 8/1032** (2016.01); **H01M 8/1039** (2016.01); **H01M 8/1046** (2016.01); **H01M 8/1067** (2016.01); **H01M 8/1072** (2016.01); **H01M 8/1081** (2016.01); **H01M 50/414** (2021.01)

CPC (source: EP US)
B01D 67/00933 (2022.08 - EP US); **B01D 69/1411** (2022.08 - EP US); **B01D 71/32** (2013.01 - EP); **B01D 71/5221** (2022.08 - EP US); **B01D 71/56** (2013.01 - EP); **B01D 71/62** (2013.01 - EP); **B01D 71/66** (2013.01 - EP US); **B01D 71/68** (2013.01 - EP); **B01D 71/82** (2013.01 - EP); **C08G 65/48** (2013.01 - EP); **C08J 5/2275** (2013.01 - EP); **C08L 71/00** (2013.01 - EP); **H01M 8/0289** (2013.01 - EP); **H01M 8/1025** (2013.01 - EP); **H01M 8/1027** (2013.01 - EP); **H01M 8/1032** (2013.01 - EP); **H01M 8/1039** (2013.01 - EP); **H01M 8/1046** (2013.01 - EP); **H01M 8/1067** (2013.01 - EP); **H01M 8/1072** (2013.01 - EP); **H01M 8/1081** (2013.01 - EP); **H01M 50/414** (2021.01 - EP US); **B01D 2323/30** (2013.01 - EP); **C08J 2327/00** (2013.01 - EP); **C08J 2371/00** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP)

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 0024796 A1 20000504; **WO 0024796 A8 20000914**; AU 2142400 A 20000515; CA 2342221 A1 20000504; EP 1115769 A1 20010718; JP 2003503510 A 20030128

DOCDB simple family (application)
US 9919470 W 19990826; AU 2142400 A 19990826; CA 2342221 A 19990826; EP 99965719 A 19990826; JP 2000578363 A 19990826