

Title (en)

METHOD FOR PRODUCING A POLYMER SYSTEM CAPABLE OF PROTON EXCHANGE, BASED ON POLYARYL ETHER KETONES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ZUM PROTONENAUSTAUSCH BEFÄHIGTEN POLYMERSYSTEMS AUF DER BASIS VON POLYARYLETHERKETONEN

Title (fr)

PROCEDE POUR REALISER UN SYSTEME POLYMERE APTE A L'ECHANGE PROTONIQUE SUR LA BASE DE POLYARYLETHERCETONES

Publication

**EP 1599530 A1 20051130 (DE)**

Application

**EP 04715287 A 20040227**

Priority

- EP 2004001975 W 20040227
- DE 10309135 A 20030228

Abstract (en)

[origin: CA2514946A1] The invention relates to a method for producing a polymer system capable of proton exchange, based on at least one polyaryl ether ketone. Said method consists of: (i) reacting the polyaryl ether ketone(s) with at least one alkane sulphonic acid, to obtain polyaryl ether ketones (I) containing sulphur. The invention also relates to sulphonated polyaryl ether ketones, which can be produced according to the inventive method and to their use as a polymer electrolyte membrane.

IPC 1-7

**C08G 65/48**; B01D 71/52; B01D 71/82; H01M 8/10; H01M 6/18; H01M 10/40; C08J 5/22

IPC 8 full level

**C08G 65/48** (2006.01); **B01D 71/52** (2006.01); **B01D 71/82** (2006.01); **H01M 8/10** (2006.01)

CPC (source: EP KR US)

**B01D 71/5222** (2022.08 - EP KR US); **B01D 71/82** (2013.01 - EP US); **C08G 8/28** (2013.01 - KR); **C08G 65/48** (2013.01 - EP KR US); **C08J 5/22** (2013.01 - KR); **H01M 8/1025** (2013.01 - EP KR US); **H01M 8/1044** (2013.01 - EP US); **H01M 8/1072** (2013.01 - EP US); **H01M 8/1081** (2013.01 - EP US); **Y02P 70/50** (2015.11 - US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**DE 10309135 A1 20040909**; CA 2514946 A1 20040910; CN 100357339 C 20071226; CN 1753932 A 20060329; EP 1599530 A1 20051130; JP 2006519268 A 20060824; JP 4383443 B2 20091216; KR 20050104408 A 20051102; US 2007117958 A1 20070524; WO 2004076530 A1 20040910

DOCDB simple family (application)

**DE 10309135 A 20030228**; CA 2514946 A 20040227; CN 200480005401 A 20040227; EP 04715287 A 20040227; EP 2004001975 W 20040227; JP 2006500042 A 20040227; KR 20057015929 A 20050826; US 54508404 A 20040227