

Title (en)

METHOD FOR THE PRODUCTION OF FUNCTIONALISED POLYIMIDE POLYMERS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FUNKTIONALISIERTEN POLYIMID-POLYMEREN

Title (fr)

PROCEDE DE PRODUCTION DE POLYMERES POLYIMIDES FONCTIONNALISES

Publication

**EP 1373365 A1 20040102 (DE)**

Application

**EP 02717975 A 20020223**

Priority

- DE 0200676 W 20020223
- DE 10111663 A 20010309

Abstract (en)

[origin: WO02072667A1] A method for the production of functionalised polyimide polymers is disclosed, whereby a) a solution A of a polyimide polymer for functionalising is dissolved in a solvent for polyimides, either b11) a solution B of an organic modifier with a pH value  $\geq 7$  is produced and b12) the total or portions of solution B are added at or below room temperature to solution A to form a homogeneous reaction mixture, or b2) the modifier is directly added to solution A and homogeneously dissolved to give a homogeneous reaction mixture, c) the homogeneous reaction mixture is heated and d) the polymer solution obtained on cooling is worked up in a known manner. According to the invention, it is possible using said method to produce covalently-functionalised polyimide polymers with a variable, yet freely adjustable content of differing functional groups and to achieve a distribution of the functional groups along the polymer chain which is as uniform as possible. Said polymers are particularly suitable for the production of membranes.

IPC 1-7

**C08G 73/10**; B01D 71/64; B01D 67/00

IPC 8 full level

**B01D 71/64** (2006.01); **B01D 71/82** (2006.01); **C08G 73/10** (2006.01)

CPC (source: EP US)

**B01D 71/641** (2022.08 - EP US); **B01D 71/82** (2013.01 - EP); **C08G 73/10** (2013.01 - EP); **C08G 73/101** (2013.01 - EP)

Citation (search report)

See references of WO 02072667A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02072667 A1 20020919**; DE 10111663 A1 20020919; DE 10111663 B4 20050721; EP 1373365 A1 20040102

DOCDB simple family (application)

**DE 0200676 W 20020223**; DE 10111663 A 20010309; EP 02717975 A 20020223