



(51) International Patent Classification:

D01D 5/06 (2006.01) **D01F 6/74** (2006.01)
D01F 6/66 (2006.01)

(21) International Application Number:

PCT/EP2009/063572

(22) International Filing Date:

16 October 2009 (16.10.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/106,177 17 October 2008 (17.10.2008) US

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(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

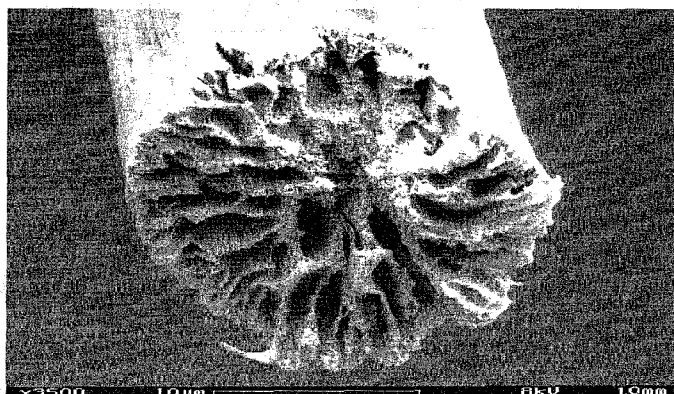
kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

(54) Title: FIBER OR FOIL FROM POLYMERS WITH HIGH T_g AND PROCESS FOR THEIR MANUFACTURE

Figure 1



(57) Abstract: The invention relates to a process for the manufacture of a fiber or foil comprising at least one optionally functionalized polymer with a high T_g selected from the group consisting of poly(aryl ether sulfone) (PAES), poly(aryl ether ketone) (PAEK) and aromatic polyimide, comprising the steps of (aa) providing a solution comprising at least 45 wt. %, based upon the weight of the solution, of the polymer, and at least 20 wt. %, based upon the weight of the solution, of at least one halogen-free organic solvent (S1) for the polymer; (bb) pushing the solution through a nozzle; and (cc) introducing the solution into a coagulation bath comprising (cc1) at least one liquid (L1) in which the polymer is insoluble, and optionally (cc2) at least one organic solvent (S2) for the polymer, identical to or different from the organic solvent (S1), to form a fiber or foil. The invention moreover relates to a fiber or foil obtained by this process as well as to fibers or foils with specific porosity features and/or mechanical properties.

