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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C08F	A2	(11) International Publication Number: ✓ WO 98/39365 (43) International Publication Date: 11 September 1998 (11.09.98)
(21) International Application Number: ✓ PCT/US98/03223 (22) International Filing Date: ✓ 19 February 1998 (19.02.98) (30) Priority Data: ✓ 08/802,130 ✓ 19 February 1997 (19.02.97) ✓ US ✓ 08/928,972 ✓ 12 September 1997 (12.09.97) ✓ US see PF23 of 17/12/99 (71) Applicant: COURTAULDS AEROSPACE, INC. [US/US]; 5430 San Fernando Road, Glendale, CA 91209 (US). ✓ (72) Inventors: ZOOK, Johnathan, Doherty; 20303 High Point ✓ Place, Santa Clarita, CA 91351 (US). DeMOSS, Suzanna; 3215 Overland Avenue #7166, Los Angeles, CA 90034 ✓ (US). JORDAN, David, Weldon; 10960 Des Moines ✓ Avenue, Northridge, CA 91326 (US). RAO, Chandra, B.; 25716 North Player Drive, T-15, Valencia, CA 91355 (US). ✓ (74) Agents: BERMAN, Rod, S. et al.; Jeffer, Mangels, Butler & Marmaro, LLP, 10th floor, 2121 Avenue of the Stars, Los Angeles, CA 90067-5010 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(54) Title: COMPOSITION AND METHOD FOR PRODUCING FUEL RESISTANT LIQUID POLYTHIOETHER POLYMERS WITH GOOD LOW TEMPERATURE FLEXIBILITY ✓ (57) Abstract A polythioether includes a structure having the formula (I): $-R^1-[-S-(CH_2)_2-O-[-R^2-O-]_m-(CH_2)_2-S-R^1-]_n-$, wherein R^1 denotes a C_{2-6} n-alkylene, C_{3-6} branched alkylene, C_{6-8} cycloalkylene or C_{6-10} alkylcycloalkylene group, $-[(CH_2)_p-X]_q-(CH_2)_r-$, or $-[(CH_2)_p-X]_q-(CH_2)_r-$ in which at least one $-CH_2-$ unit is substituted with a methyl group, R^2 denotes a C_{2-6} n-alkylene, C_{2-6} branched alkylene, C_{6-8} cycloalkylene or C_{6-10} alkylcycloalkylene group, or $-[(CH_2)_p-X]_q-(CH_2)_r-$, X denotes one selected from the group consisting of O, S and $-NR^6$, R^6 denotes H or methyl, m is a rational number from 0 to 10, n is an integer from 1 to 60, p is an integer from 2 to 6, q is an integer from 0 to 5, and r is an integer from 2 to 10. The polythioether is a liquid at room temperature and pressure.		