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(21) International Application Number: PCT/US98/17685 (22) International Filing Date: 26 August 1998 (26.08.98) (30) Priority Data: 60/057,582 27 August 1997 (27.08.97) US (71) Applicant (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): HO, Thoi, H. [US/US]; 54 Orchid Court, Lake Jackson, TX 77566 (US). HOENIG, Wendy, D. [US/US]; 205 Violet, Lake Jackson, TX 77480 (US). KAO, Che-I [US/US]; 301 Huckleberry Drive, Lake Jackson, TX 77566 (US). ROWLAND, Michael, E. [US/US]; 402 Daffodil, Lake Jackson, TX 77566 (US). CUMMINS, Clark, H. [US/US]; 4317 Washington Street, Midland, MI 48642 (US). MULLINS, Michael, J. [US/US]; 302 Juniper, Lake Jackson, TX 77566 (US). SILVIS, H., Craig [US/US]; 1908 Candlestick Lane, Midland, MI 48642 (US). (74) Agent: CAVENDER, Carol, J.; Patent Dept., B-1211, 2301 Brazosport Boulevard, Freeport, TX 77541 (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, HR, 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, US, 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, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: RHEOLOGY MODIFICATION OF POLYMERS PREPARED USING METALLOCENES		
(57) Abstract The invention includes a process of preparing a coupled polymer comprising heating an admixture containing: 1) at least one polyolefin comprising ethylene and at least one comonomer which is selected from alpha olefins having at least 3 carbon atoms, dienes and 2) a coupling amount of at least one poly(sulfonyl azide). The polyolefin is the product of polymerization of ethylene and at least one other alpha-olefin in the presence of a single site catalyst (transition metal like Va or Cr, metallocene or constrained geometry).		