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(21) International Application Number: PCT/EP99/10495 (22) International Filing Date: 29 December 1999 (29.12.99) (30) Priority Data: 09/223,549 30 December 1998 (30.12.98) US (71) Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL). (72) Inventors: ADDICKS, Glynda; 3506 Highway 6, no. 109, Sugar Land, TX 77478 (US). BACK, Gayle, Edward; 7810 Tarik Drive, Houston, TX 77083 (US). ELMORE, Jimmy, D.; 719 Electra Drive, Houston, TX 77079 (US). FRIED, Herbert, Elliott; 11634 Highgrove Drive, Houston, TX 77077 (US). WANG, Pen-Chung; 13603 Pineroak Lane, Houston, TX 77079 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: PARTIAL OXIDATION OF POLYOXYALKYLENE POLYOL COMPOSITIONS TO POLYCARBOXYLIC ACID COMPOSITIONS		
(57) Abstract A process for partially oxidizing and converting a polyoxyalkylene polyol composition to a polycarboxylic acid composition comprising reacting a polyoxyalkylene polyol composition with a stable free radical nitroxide in the presence of an NO_x generating compound, a flow of air or oxygen, and optionally water, at elevated temperatures. The oxidation reaction is discontinued by deactivating the catalyst and removing the source of air or oxygen, the NO_x generating source, and the optional water. From 60% to no more than 95% of the primary hydroxyl groups in the polyoxyalkylene polyol composition is converted.		