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(21) International Application Number: PCT/US98/12621 (22) International Filing Date: 22 June 1998 (22.06.98) (30) Priority Data: 08/880,151 20 June 1997 (20.06.97) US (71) Applicant (for all designated States except US): PENNZOIL PRODUCTS COMPANY [US/US]; 700 Milan Street, Houston, TX 77002 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): HEILMAN, William [US/US]; 14826 La Quinta Lane, Houston, TX 77079 (US). I-CHING, Chiu [US/US]; 9708 West Airport Boulevard, Houston, TX 77031 (US). CHIEN, James, C., W. [US/US]; Amherst Polymer Technology, Inc., 15 Coach Lane, Amherst, MA 01002 (US). (74) Agents: PRICE, Robert, L. et al.; McDermott, Will & Emery, Suite 300, 99 Canal Center Plaza, Alexandria, VA 22314 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, 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, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: ETHYLENE-ALPHA-OLEFIN POLYMERS, PROCESSES AND USES		
(57) Abstract A novel series of copolymers and terpolymers, useful as base oils for synthetic lubricants, are produced by polymerization of ethylene, an alpha-olefin, and optionally a third monomer comprising an alpha-olefin of 3 to 20 carbon atoms, in the presence of a combination catalyst comprising a compound of a transition metal of Group IVb of the Periodic Table and an aluminoxane. The copolymer or terpolymer may be further processed by thermal cracking to yield novel cracked polymers, and the cracked polymers may be hydrogenated. The copolymers or terpolymers may also be hydroisomerized. All the polymers are useful as base oils for lubricating oils and consumer products.		