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(21) International Application Number: PCT/US98/12700 (22) International Filing Date: 18 June 1998 (18.06.98) (30) Priority Data: 60/050,145 18 June 1997 (18.06.97) US (71) Applicant: EXXON CHEMICAL PATENTS INC. [US/US]; 5200 Bayway Drive, Baytown, TX 77520-5200 (US). (72) Inventors: SUN, Hsiang-ning; 4212 Villanova, Houston, TX 77005 (US). VAUGHN, Stephen, N.; 1111 Southern Hills, Kingwood, TX 77339 (US). SMITH, Robert, S.; 1018 Buoy, Houston, TX 77062 (US). (74) Agents: KELLER, Bradley, A. et al.; Exxon Chemical Com- pany, P.O. Box 2149, Baytown, TX 77522-2149 (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, 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: OXYGENATE CONVERSIONS USING MODIFIED SMALL PORE MOLECULAR SIEVE CATALYSTS		
(57) Abstract The invention relates to a process for converting oxygenated organic material, to olefins using small pore molecular sieve catalysts. More particularly, the invention relates to a method for converting oxygenated organic material to olefins with improved olefin yields and decreased yields of methane and other light saturate byproducts. The improved yield slate is achieved by treating the small pore molecular sieve catalyst with a modifier selected from the group consisting of polynuclear aliphatic heterocyclic compounds with at least three interconnected ring structures having at least one nitrogen atom as a ring substituent, each ring structure having at least five ring members, decomposed derivatives of said polynuclear aliphatic heterocyclic compound, and mixtures thereof.		