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(21) International Application Number: PCT/US99/08250 (22) International Filing Date: 15 April 1999 (15.04.99) (30) Priority Data: 60/081,939 16 April 1998 (16.04.98) US 09/290,100 9 April 1999 (09.04.99) US (71) Applicant: ARCO CHEMICAL TECHNOLOGY, L.P. [US/US]; Suite 238, Two Greenville Crossing, 4001 Kennett Pike, Greenville, DE 19807 (US). (72) Inventors: DESSAU, Ralph, M.; 14 Celler Road, Edison, NJ 08817 (US). KAHN, Andrew, P.; 5109 Brandywine Drive, Eagleville, PA 19403 (US). GREY, Roger, A.; 111 Piedmont Road, West Chester, PA 19382 (US). (74) Agents: KOZAK, Dennis, M. et al.; Lyondell Chemical Company, 3801 West Chester Pike, Newtown Square, PA 19073 (US).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, 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, 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, ZA, 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>
(54) Title: EPOXIDATION PROCESS		
(57) Abstract The selectivity of an olefin epoxidation catalyzed by a noble metal-modified titanium or vanadium zeolite is greatly enhanced by the addition of a phosphorus, sulfur, selenium or arsenic compound to the reaction mixture. The epoxidation utilizes hydrogen and oxygen in addition to the olefin.		