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(21) International Application Number: PCT/US96/17140 (22) International Filing Date: 25 October 1996 (25.10.96) (30) Priority Data: 60/007,609 27 November 1995 (27.11.95) US (71) Applicants (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). W.R. GRACE & CO.-CONN. [US/US]; 1114 Avenue of the Americas, New York, NY 10036 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CARNAHAN, Edmund, M. [US/US]; 5635 Colombia Road No. 302, Columbia, MD 21044 (US). CARNEY, Michael, J. [US/US]; 6351 Georgetown Boulevard, Eldersburg, MD 21784 (US). NEITHAMER, David, R. [US/US]; 6007 Sturgeon Creek Parkway, Midland, MI 48640 (US). NICKIAS, Peter, N. [US/US]; 2705 Mt. Vernon Street, Midland, MI 48642 (US). SHIH, Keng-Yu [US/US]; 11239 Peartree Way No. C, Columbia, MD 21044 (US). SPENCER, Lee [US/US]; 4903 Clover Lane, Pearland, TX 77584 (US).		(74) Agent: DELINE, Douglas, N.; The Dow Chemical Company Patent Dept., P.O. Box 1967, Midland, MI 48641-19 (US). (81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, E, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LS, LT, LU, LV, M, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, S, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, ARII patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (A, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (A, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, M, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, G, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: SUPPORTED CATALYST CONTAINING TETHERED CATION FORMING ACTIVATOR		
(57) Abstract A support for use in preparing supported catalysts for addition polymerizations comprising the reaction product of: (A) an inorganic oxide material comprising reactive surface hydroxyl groups, at least some of said hydroxyl groups optionally having been functionalized and converted to a reactive silane moiety corresponding to the formula: -OSiR ₂ H, wherein R, independently each occurrence, is hydrogen, C ₁₋₂₀ hydrocarbyl, or C ₁₋₂₀ hydrocarbyloxy, said inorganic oxide or functionalized derivative thereof comprising less than 1.0 mmol reactive surface hydroxyl functionality per gram; and (B) an activator compound comprising: b ₁) a cation which is capable of reacting with a transition metal compound to form a catalytically active transition metal complex, and b ₂) a compatible anion containing at least one substituent able to react with the inorganic oxide, with residual hydroxyl functionality of the inorganic oxide, or with the reactive silane moiety, thereby covalently bonding the compatible anion to the support; catalysts formed therefrom, process of manufacture and the method of use.		