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(21) International Application Number: PCT/US99/21590 (22) International Filing Date: 16 September 1999 (16.09.99) (30) Priority Data: 60/100,488 16 September 1998 (16.09.98) US (71) Applicant (for all designated States except US): THE DOW CHEMICAL COMPANY [US/US]; 2030 Dow Center, Midland, MI 48674 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): CARNAHAN, Edmund, M. [US/US]; 4919 Twin Elm Drive, Fresno, TX 77545 (US). JACOBSEN, Grant, B. [GB/US]; Apartment No 4202, 3000 Bissonnet Street, Houston, TX 77005 (US). (74) Agent: WARRICK, Norcen, D.; The Dow Chemical Company, Patent Dept., P.O. Box 1967, Midland, MI 48641-1967 (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, US, 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. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: FUNCTIONALIZED CATALYST SUPPORTS AND SUPPORTED CATALYST SYSTEMS		
(57) Abstract The present invention relates to functionalized catalyst supports that are useful in the formation of supported polymerization catalysts, supported catalysts derived from such functionalized catalyst supports, methods for preparing such functionalized catalyst supports and supported catalysts, and polymerization processes utilizing such supported catalysts. The functionalized catalyst support comprises a particulated support material having chemically bonded thereto a plurality of aluminum-containing groups derived from a non-ionic Lewis acid, said aluminum-containing groups: containing at least one fluoro-substituted hydrocarbyl ligand containing from 1 to 20 carbons, said hydrocarbyl ligand being bonded to aluminum, and being bonded to said support material, optionally through a bridging moiety, said composition being capable of activating a Group 3-10 metal complex for the addition polymerization of one or more addition polymerizable monomers.		