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60/737,595 17 November 2005 (17.11.2005) US(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 BAYWAY DRIVE, Baytown, TX 77520 (US).

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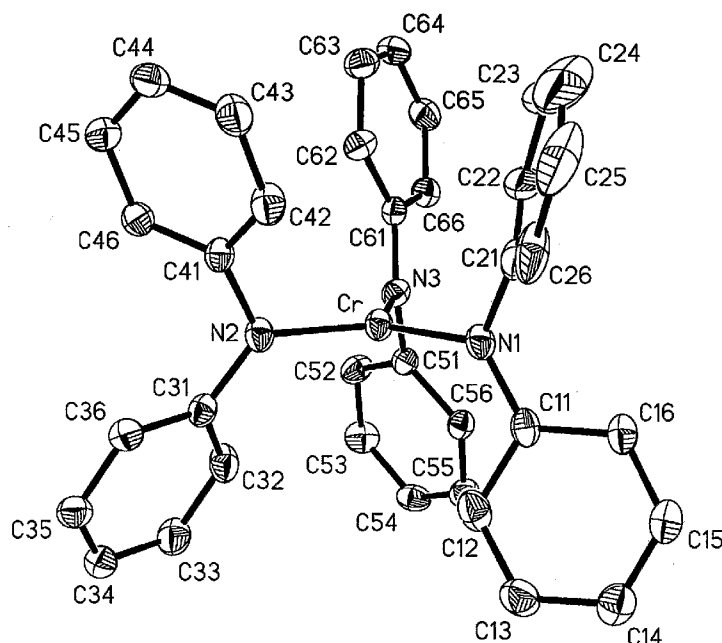
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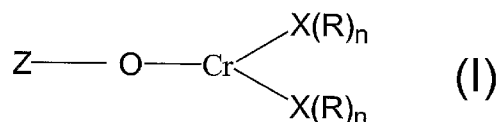
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[Continued on next page]

(54) Title: CATALYST SYSTEM FOR OLEFIN POLYMERIZATION AND POLYMERS PRODUCED THEREFROM



(57) Abstract: This invention relates to a catalyst composition represented by the formula (I): where Z-O is a support material, where O is oxygen, preferably Z is Si, Ti, Al, Sn, Fe, Ga, Zr, B, Mg, or Cr; each X is, independently, N, O, P or S; each n is, independently, 1 or 2; each R is, independently, an alkyl group, a substituted alkyl group, an aryl group, or a substituted aryl group, provided at least one R group is an aryl or substituted aryl group. This invention also relates to the use of the above catalyst compound with an aluminum alkyl to polymerize olefins and other monomers.



**Declarations under Rule 4.17:**

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
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