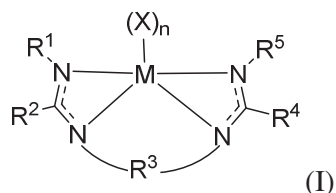


AN OLEFIN POLYMERIZATION CATALYST

Abstract

An olefin polymerization catalyst system comprising: a procatalyst component comprising a metal-ligand complex of Formula (I):



wherein each X is independently a monodentate or polydentate ligand that is neutral, monoanionic, or dianionic, wherein n is an integer, and wherein X and n are chosen such that the metal-ligand complex of Formula (I) is overall neutral; wherein each R¹ and R⁵ independently is selected from (C₁-C₄₀)hydrocarbyls, substituted (C₁-C₄₀)hydrocarbyls; (C₁-C-40)heterohydrocarbyls and substituted (C₁-C40)heterohydrocarbyls; wherein each R² and R⁴ independently is selected from (C₁-C₄₀)hydrocarbyls and substituted (C₁-C₄₀)hydrocarbyls; wherein R³ is selected from the group consisting of a (C₃-C₄₀)hydrocarbylene, substituted (C₃-C₄₀)hydrocarbylene, [(C+Si)₃-(C+Si)₄₀]organosilylene, substituted [(C+Si)₃-(C+Si)₄₀]organosilylene, [(C+Ge)₃-(C+Ge)₄₀]organogermylene, or substituted [(C+Ge)₃-(C+Ge)₄₀]organogermylene; wherein each N independently is nitrogen; and optionally, two or more R¹⁻⁵ groups each independently can combine together to form mono-aza ring structures, with such ring structures having from 5 to 16 atoms in the ring excluding any hydrogen atoms.

[FIG. 1]