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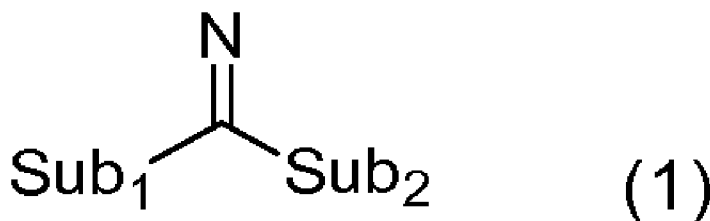
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(54) Title: BORANE ACTIVATED TI CATALYST SYSTEM COMPRISING AMIDINE AND DIENE LIGAND



(57) Abstract: The invention relates to a catalyst system for the polymerization of olefins comprising a metal complex of formula CyLMD and an activating cocatalyst, wherein: - M is titanium; - Cy is a cyclopentadienyl-type ligand; - D is a diene; - L is an amidinate-containing ligand of formula (1), wherein the amidinate-containing ligand is covalently bonded to the titanium via the imine nitrogen atom, Sub₁ is a substituent, which comprises a group 14 atom through which Sub₁ is bonded to the imine carbon atom, Sub₂ is a substituent, which comprises a nitrogen atom, through which Sub₂ is bonded to the imine carbon atom, and the activating cocatalyst is a boron compound represented by the general formula BR¹R²R³, wherein B is a boron atom in the trivalent valence state and R¹, R² and R³ are individually selected from the group consisting of halogen atom, hydrocarbyl, halogenated hydrocarbyl, substituted silyl, alkoxy or di-substituted amino residue. The invention further relates to a process for the preparation of a polymer comprising at least one aliphatic or aromatic hydrocarbyl C₂₋₂₀ olefin wherein the at least one aliphatic or aromatic olefin is contacted with the catalyst system of the present invention.

