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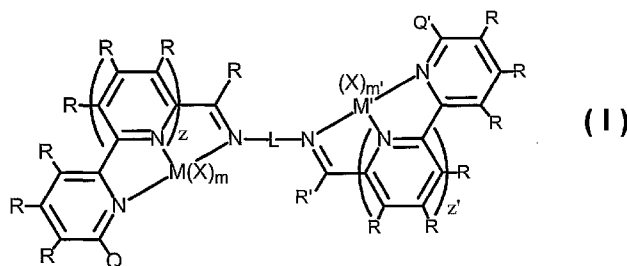
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(54) Title: TRANSITION METAL COMPOUNDS FOR OLEFIN POLYMERIZATION AND OLIGOMERIZATION



(57) **Abstract:** This invention relates to new transition metal catalyst compounds represented by the formula (I): where: M and M' are, independently, a group 8, 9, 10 or 11 transition metal, preferably Ni, Co, Pd, Cu or Fe; each R group is, independently, is, hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl, or substituted germylcarbyl substituents, and optionally, adjacent R groups may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent; R' is hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl, or substituted germylcarbyl substituents, and optionally, adjacent R groups may join together with R' to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent; each X group is, independently, is, hydrogen, a halogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl, or substituted germylcarbyl substituents, and optionally, adjacent X groups may join together to form a substituted or unsubstituted, saturated, partially unsaturated, or aromatic cyclic or polycyclic substituent; m and m' are, independently, 0, 1, 2, or 3; z and z' are, independently, 0, 1, 2, or 3; N is nitrogen; Q is hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl, or substituted germylcarbyl substituents; Q' is hydrogen, or a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl or substituted germylcarbyl substituents; and L is a hydrocarbyl, substituted hydrocarbyl, halocarbyl, substituted halocarbyl, silylcarbyl, substituted silylcarbyl, germylcarbyl, or substituted germylcarbyl substituent.

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