-YNR2, or -NR2, wherein Y is an alkylene group containing 1 to 24 carbon atoms, wherein each R is individually selected from alkyl groups containing 1 to 20 carbon atoms. Another aspect of the invention is to provide a metallocene represented by the formula ZAMX3, wherein Z and A are as described above, M is a Group IVB or VB transition metal, and X is a halide. Other aspects of the present invention include catalyst systems metallocenes comprising the and organoaluminoxane, processes for preparing the above defined ligands, metallocenes and catalyst systems, and polymerization processes employing the catalyst systems.

5565397

OLEFIN POLYMERIZATION CATALYST COMPRISING A METALLOCENE AND AN ANHYDROUS LITHIUM HALIDE-TREATED ALKYLALUMINOXANE

Sangokoya Samuel Baton Rouge, LA, UNITED STATES assigned to Albemarle Corporation

Alkylaluminoxanes having improved catalytic activity such as when they are used in combination with metallocenes for the polymerization of alpha-olefins, are prepared by treating an organic solvent solution of an alkylaluminoxane, such as methylaluminoxane, with anhydrous lithium halide.

5565527

POLYMERIC, CATALYTICALLY ACTIVE COMPOUNDS, THEIR PREPARATION, AND THEIR USE AS CATALYSTS IN THE PREPARATION OF POLYISOCYANATES CONTAINING URETDIONE GROUPS

Bruchmann Bernd; Minges Roland; Schade Christia; Stiefenhoefer Konrad Ludwigshafen, GERMANY assigned to BASF Aktiengesellschaft

Polymeric, catalytically active compounds comprising polymer chains to which imidazole groups are linked terminally or laterally are used as catalysts for the dimerization of isocyanates.

5565547

CATALYST FOR THE PREPARATION OF LINEAR CARBON MONOXIDE/ALPHA-OLEFIN COPOLYMERS

Hefner John G; Kolthammer Brian W S Lake Jackson, TX, UNITED STATES assigned to The Dow Chemical Company

Novel catalyst compositions comprising a cationic transition metal complex of the formula (*See Patent for Tabular Presentation*) PS wherein: Pd(II) is palladium having a valence of +2; S is a synthesis solvent; L is a monodendate, bidendate or tridendate ligand or ligands having one or more bonding sites; x is an integer from 1 to 3 and is equal to the total number of ligand bonding sites; A is a weakly or non-coordinating anion capable or stabilizing the complex in its cationic form; and n is 1 or 2 and y is 2 or 1; provided that (i) when n is 1, y is 2 and when n is 2, y is 1; and (ii) when the anion A is tetrafluoroborate, the organometallic complex is not (tris(acetonitrile) palladium(II)

triphenylphosphine), bis(acetonitrile) palladium(II) bis(triphenylphosphine)), ((acetonitrile) palladium (II) tris(triphenylphosphine)) or (bis(acetonitrile)palladium(II) 1,3-bis (diphenylphosphino)propane). The new catalyst compositions are useful for the copolymerization of carbon monoxide and at least one ethylenically unsaturated hydrocarbon to produce linear alternating polymers. The rate of polymerization is enhanced by including an alcohol, such as methanol, in the polymerization mixture.

5583188

PROCESS FOR PRODUCING AN OLEFIN POLYMER OR COPOLYMER AND CATALYST COMPOSITION THEREFOR

Kashiwa Norio; Kioka Mamoru; Ushida Yoshihisa Iwakuni, JAPAN assigned to Mitsui Petrochemical Industries Ltd

As improved process for producing an olefin polymer or copolymer by using a novel catalyst composition composed of (A) a titanium catalyst component containing magnesium, titanium, halogen and an ester specified in claim 1, as an electron donor, (B) an organoaluminum compound and (C) a heterocyclic compound or a ketone specified in claim 1, as a third component. The combination parameter of the ester in (A) and the (C) component is new, and the process can give a highly stereospecific olefin polymer or copolymer in high yields.

5583194

SELECTIVE CATALYSTS FOR THE SYNTHESIS OF EPOXYSILICONE MONOMERS AND POLYMERS

Crivello James; Fan Mingxin Clifton Park, NY, UNITED STATES assigned to General Electric Company

The invention provides a method for making a curable epoxysilicone composition through the hydrosilation reaction between an ethylenically unsaturated epoxide and an SiH-containing silicone to produce an epoxysilicone product, and catalyzed by a quaternary ammonium, phosphonium or arsonium hexahaloplatinate which does not promote the oxirane ring-opening reaction of either the ethylenically unsaturated epoxide starting material or the epoxysilicone product. The invention also provides for a curable epoxysilicone composition made by the above method.

5585317

COMPONENTS AND CATALYSTS FOR THE POLYMERIZATION OF OLEFINS

Sacchetti Mario; Pennini Gianni; Cuffiani Illaro Ferrara, ITALY assigned to Montell Technology Company by

The present invention relates to spherical solid components of catalysts for the polymerization of olefins comprising, supported on a magnesium dihalide in active form, a titanium compound containing at least one Ti-halogen bond and one OR group, said OR group being bonded to Ti in an amount such that the OR/Ti molar ratio is greater than or equal to 0.5; optionally the component also comprises an electron donor compound. The spherical solid components of the invention are characterized by having a porosity comprised between 0.35 and 0.7 cm3/g and by a pore size