Novel Group 4 metal complexes containing one and only one cyclic delocalized, anionic, pi-bonded group wherein the metal is in the +4 formal oxidation state and having a bridged ligand structure, also referred to as constrained geometry complexes and a conjugated diene divalent anionic ligand group; catalytic derivatives of such complexes including novel zwiterionic complexes; and the use thereof as catalysts for polymerizing olefins, diolefins and/or acetylenically unsaturated monomers.

5539069

OLEFIN POLYMERIZATION CATALYSTS AND METHODS OF OLEFIN POLYMERIZATION

Tsutsui Toshiyuki; Yoshitsugu Ken Waki cho, JAPAN assigned to Mitsui Petrochemical Industries Ltd

An olefin polymerization catalyst of the present invention comprises (A) a metallocene compound, (B) an organoaluminum oxy compound, and (C) at least one kind of carbonyl-containing compound selected from ketoalcohol and beta-diketone, and optionally (D) an organoaluminum compound, and therefore. catalyst is excellent the in polymerization activity per catalyst unit weight, and is capable of giving olefin (co)polymers having high molecular weight. A supported olefin polymerization catalyst and its olefin prepolymerized catalyst of the present invention are excellent in polymerization activity per catalyst unit weight, and is capable of giving olefin (co)polymers having uniform particle size.

5539124

POLYMERIZATION CATALYSTS BASED ON TRANSITION METAL COMPLEXES WITH LIGANDS CONTAINING PYRROLYL RING

Etherton Bradley P; Nagy Sandor Houston, TX, UNITED STATES assigned to Occidental Chemical Corporation

Disclosed is an azametallocene polymerization catalyst having the general formula (*See Patent for Chemical Structure*) where L is a ligand, or mixture of ligands, each having 4 to 30 carbon atoms and containing at least two fused rings, one of which is a pyrrolyl ring, Cp is a ligand containing a cyclopentadienyl group, B is a Lewis acid, Y is a halogen, alkoxy from C1 to C20, siloxy from C1 to C20, or mixtures thereof, M is titanium, zirconium, or mixtures thereof, m is 1 to 4, and n is 0 to 2, p is 0 to 2, q is 0 to 1, and m+n+q=4. The catalyst is useful in polymerizing unsaturated olefinic monomers such as ethylene.

FINE AND SPECIALITY CHEMICALS

5532386

CATALYTIC PROCESS FOR ELIMINATING CARBOXYLIC ESTER AND ACYL GROUPS FROM ORGANIC COMPOUNDS

Fischer Rolf Heidelberg, GERMANY assigned to BASF Aktiengesellschaft