5612428

PROCESS FOR PREPARING OLEFIN POLYMER WITH CATALYST CONTAINING METALLOCENE

Winter Andreas; Kuml uber Frank; Aulbach Michael; Bachmann Bernd; Klein Robert; Kuml uhlein Klaus; Spaleck Walter; Kohlpaintner Christian Glashutten, GERMANY assigned to Hoechst Aktiengesellschaft

The invention relates to a metallocene compound of the formula I (*See Patent for Chemical Structure*) (I) where the two indenyl ligands have substitution patterns different from one another. The metallocene compound can be used as catalyst component for olefin polymerization.

5614456

CATALYST FOR BIMODAL MOLECULAR WEIGHT DISTRIBUTION ETHYLENE POLYMERS AND COPOLYMERS

Mink Robert I; Nowlin Thomas E; Schregenberger Sandra D;Shirodkar Pradeep; Tsien Grace O Warren, NJ, UNITED STATES assigned to Mobil Oil Corporation

The interaction of silica, previously calcined at 600°C, with dibutylmagnesium (DBM), 1-butanol and titanium tetrachloride and a solution of methylalumoxane (MAO) and (BuCp)2ZrCl2 provides a catalyst that, in the absence of a trialkylaluminum (AlR3) cocatalyst, produces polyethylene with a bimodal MWD.

5614457

CATALYST SYSTEM USING ALUMINUM ALKYL WITH ION-PAIR METALLOCENE CATALYSTS

Ewen John; Elder Michael Houston, TX, UNITED STATES assigned to Fina Technology Inc

This invention is for a catalyst system for polymerization of olefins using an ionic metallocene catalyst with aluminum alkyl. The metallocene catalyst is an ion pair formed from a neutral metallocene compound and an ionizing compound. The invention can be used in any method of producing ionic metallocene catalysts. Use of aluminum alkyl with an ionic metallocene catalyst eliminates the need for using methylaluminoxane (MAO). Catalysts produced by the method of this invention have high activity. The invention reduces catalyst poisons which cause low activity uncontrolled activity. or no polymerizations. Polymerization using this catalyst system are reproducible and controllable.

5614455

OLEFIN POLYMERIZATION CATALYST, PROCESS FOR ITS PREPARATION, AND ITS USE

Herrmann Hans-Friedric; Bachmann Bernd; Spaleck Walter Darmstadt, GERMANY assigned to Hoechst Aktiengesellschaft

Olefin polymerization catalyst, process for its preparation, and its use. A supported polymerization catalyst which is applicable in all polymerization processes is comprised of the reaction product of (A) a supported organoaluminum compound and (B) a metallocene catalyst component.