

5569635**CATALYST SUPPORTS, SUPPORTED CATALYSTS AND METHODS OF MAKING AND USING THE SAME**

Moy David; Hoch Rober Winchester, MA, UNITED STATES assigned to Hyperion Catalysts Int'l Inc

A supported catalyst comprising a carbon fibril aggregate and a catalytically effective amount of a catalyst supported therein, a process for performing a catalytic reaction in fluid phase using the supported catalyst and a process for making the supported catalyst are disclosed.

5569805**CATALYTIC CONVERSION OF AROMATIC COMPOUNDS**

Beck Jeffrey; Valyocsik Ernest W; Venkat Chaya Princeton, NJ, UNITED STATES assigned to Mobil Oil Corporation

A process is provided for catalytic conversion of feedstock comprising aromatic compounds to product comprising aromatic compounds which differs from said feedstock. The catalyst required in the process comprises a crystalline material having the structure of MCM-58. Said crystalline material may have been treated with one or more monomeric or polymeric siloxane compounds which decompose to oxide or non-oxide ceramic or solid-state carbon species.

5569806**OLEFIN ISOMERISATION PROCESS USING METALLIC CATALYSTS IMPREGNATED WITH ORGANIC SULPHUR-CONTAINING COMPOUNDS BEFORE LOADING INTO THE REACTOR**

Cameron Charle; Nocca Jean-Luc; Sarrazin Patrick; Forestiere Alain Paris, FRANCE assigned to Institut Francais Du Petrole

The invention concerns a process for the isomerisation of less substituted olefins to more substituted external olefins and/or internal olefins in the absence of diolefins, in the presence of a palladium based catalyst deposited on a support. Before loading it into the reactor, said catalyst is treated with at least one sulphur-containing compound which is dissolved in a solvent then activated in a neutral or reducing atmosphere between 20°C. and 300°C., 1 and 50 bars and with a VVH of 50 to 600 h-1. The catalyst, containing 0.05% to 10% by weight of sulphur, is brought into contact with the feedstock and hydrogen between 20°C. and 200°C., 1 and 50 bars, a VVH of 0.5 to 10 h-1 and a H₂/olefin molar ratio of 0.01 to 1.

POLYMERS**5565396****CATALYST SYSTEMS AND POLYMERIZATION PROCESSES**

Frey Krisztina; von Massow Gabriel; Alt Helmut G; Welch M Bruce Bayreuth, GERMANY assigned to Phillips Petroleum Company

In accordance with the present invention there is provided a cyclopentadienyl-type ligand represented by the formula ZA, wherein Z is a cyclopentadienyl-type group, wherein A is -YPR₂,

-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 comprising the metallocenes and an organoaluminumoxane, 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

Alkylaluminumoxanes 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 alkylaluminumoxane, such as methylaluminumoxane, 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; Stiefenhofer 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 of 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)