

obtained from catalytic cracking operations. The fraction of hydrocracker effluent which boils between about 400°F. (205°C) and 1000°F. (538°C) is subsequently catalytically dewaxed in order to obtain a cloud point of no more than 41°F. (5°C). The hydrocracker effluent fraction is preferably recycled to the hydrocracking step prior to dewaxing.

5612273

**CATALYST FOR THE
HYDROISOMERIZATION OF
CONTAMINATED HYDROCARBON
FEEDSTOCK**

Prada Ricardo; Torrealba Mariana, Tejada Jorge; Romero Yilda; Reyes Edito Caracas, VENEZUELA assigned to Intevep S A

A catalyst system for treating sulfur and nitrogen contaminated hydrocarbon feedstock including a matrix, at least one support medium substantially uniformly distributed through said matrix, a first catalytically active metal phase supported on said support medium, said first catalytically active metal phase comprising a first metal and a second metal each selected from group VIII of the periodic table of elements, said first metal being different from said second metal, a second catalytically active metal phase supported on said matrix, said second catalytically active metal phase comprising a third metal and a fourth metal each selected from group VIII of the periodic table of elements and a fifth metal selected from group VIb of the periodic table of elements, said third metal being different from said fourth metal. The catalyst system is prepared in a method which provides the system with excellent hydroisomerization, HDS, and HDN properties.

5612274

**METHOD OF PREPARING
TRANSALKYLATION CATALYST**

Wu An-hsiang; Drake Charles A Bartlesville, OK, UNITED STATES assigned to Phillips Petroleum Company

A Group VIII metal-promoted zeolite (preferably Pt-promoted H-mordenite) is contacted with ammonium hexafluorosilicate and hydrogen gas at a temperature of about 100°-450°C The obtained material is an effective catalyst for the transalkylation of aromatic hydrocarbons.

5614079

**CATALYTIC DEWAXING OVER
SILICA BOUND MOLECULAR SIEVE**

Farnos Maria D; Forbus Thomas R; McWilliams John P; Shihabi David Wilmington, DE, UNITED STATES assigned to Mobil Oil Corporation

A molecular sieve catalyst is composited with an inert binder derived from an organic silicon source and organic polymer. The catalyst is used in dewaxing of petroleum chargestocks.

5614082

**CATALYTIC REFORMING PROCESS
WITH SULFUR ARREST**

Russ Michael B; Sechrist Paul Villa Park, IL, UNITED STATES assigned to UOP

A catalyst system comprises a physical mixture of a conversion catalyst and a sulfur sorbent to accommodate small quantities of sulfur from a hydrocarbon feedstock. Preferably, the physical

mixture comprises a sulfur-sensitive reforming catalyst protected from sulfur deactivation by a manganese-oxide catalyst. The invention shows substantial benefits over prior-art processes in catalyst utilization.

5614453

CATALYST CONTAINING ZEOLITE BETA AND A PILLARED CLAY

Ocelli Mario L Yorba Linda, CA, UNITED STATES assigned to UOP

A composition of matter comprising zeolite Beta and a pillared clay is especially suited for use in combination with one or more hydrogenation components as a catalyst for hydrocracking various types of feedstocks.

5618407

CATALYTIC CRACKING PROCESS UTILIZING A CATALYST COMPRISING ALUMINUM BORATE AND ZIRCONIUM BORATE

Kallenbach Lyle R; Senn Dwayne; Johnson Marvin M Bartlesville, OK, UNITED STATES assigned to Phillips Petroleum Company

A process for catalytically cracking a hydrocarbon-containing oil employs a cracking catalyst comprising aluminum borate and zirconium borate.

5618769

PROCESS FOR THE RECOVERY OF ALKYLATION CATALYST

Hommeltoft Sven I Hillerod, DENMARK assigned to Haldor Tops

Process for the recovery of spent fluorinated sulfonic catalyst from acid soluble oil (ASO) being formed during alkylation of hydrocarbons in the presence of the acid catalyst. The process includes washing the ASO with water and recovering an aqueous solution of the acid catalyst, neutralizing the acid in the aqueous solution by adding to the solution a basic compound being selected from the group of amino compounds, ammonia and ammonium salts, thereby, forming ammonium salts of the acid catalyst with a melting point at which the obtained acid catalyst salt in a subsequent concentration and drying step is in the form of a melt, drying the melt, and finally recovering the acid catalyst by protonization of the dried melt with sulfuric acid and distilling off the recovered acid catalyst from the sulfuric acid.

5624547

PROCESS FOR PRETREATMENT OF HYDROCARBON OIL PRIOR TO HYDROCRACKING AND FLUID CATALYTIC CRACKING

Sudhakar Chakka; Fritz Paul O; Kjellson Carl J; Huang Hua-Min; Sandford Gerald Fishkill, NY, UNITED STATES assigned to Texaco Inc

Disclosed is a process for pretreatment of hydrocarbon feed containing sulfur and nitrogen compounds and aromatics prior to hydrocracking or fluid catalytic cracking which comprises: contacting said feedstock with a sulfided catalyst comprising a metal of non-noble Group VIII and Group VIB, and, optionally one or more elements