

composition is particularly suitable for cracking metal-containing hydrocarbon feedstocks.

**5565086**

**CATALYST COMBINATION FOR IMPROVED WAX ISOMERIZATION**

Cody Ian A; Ravella Alberto Clearwater, CANADA assigned to Exxon Research and Engineering Company

The present invention is directed to an improved isomerization process employing a catalyst wherein the catalyst comprises a pair of catalyst particles of different acidity utilized either as distinct beds of such discrete particles or as a mixture of such discrete particles. The isomerization process utilizing such a catalyst produces a product which exhibits higher VI as compared to products produced using either catalyst component separately or using a single catalyst having the average acidity of the two discrete catalysts.

**5565089**

**PROCESS FOR DECOKING CATALYSTS**

Ramachandran Ramakrishna; Menon Raghu K Allendale, NJ, UNITED STATES assigned to The BOC Group Inc

Coke deposits are removed from particulates by combustion in a regenerator by a process in which air is initially used as the oxidant. The combustion gas is subjected to a separation process to remove nitrogen therefrom, and the remaining carbon dioxide-enriched gas stream is recycled to the regenerator together while substantially pure oxygen is introduced into the regenerator. As the level of carbon dioxide in the system increases, the amount of air being introduced into the regenerator

is gradually reduced and, in compensation, the amount of oxygen flowing to the regenerator is gradually increased. Eventually, part or all of the air is replaced by oxygen and carbon dioxide recycle gas, and the level of oxygen and carbon dioxide are regulated to maintain the desired temperature in the regenerator.

**5565399**

**CO OXIDATION PROMOTER AND USE THEREOF FOR CATALYTIC CRACKING**

Fraenkel Dan; Moselle Inez L East Brunswick, NJ, UNITED STATES

CO promoter particles for an FCC unit comprising transition alumina and containing at least 3% cerium oxide and from 2 to 8% lanthanum oxide.

**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.