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(54) Title: CRYSTALLINE MICROPOROUS OXIDE CATALYSTS HAVING INCREASED LEWIS ACIDITY AND METHODS FOR THE PREPARATION THEREOF

(57) Abstract: A catalyst component, a catalyst, and a process for making the component and catalyst are disclosed herein. Also disclosed herein is a fluid catalytic cracking process for converting petroleum feedstocks to lower boiling products wherein the feedstock is contacted with the catalyst. The catalyst component is a crystalline microporous oxide catalyst to which a compound for promoting dehydrogenation and increasing Lewis acidity is effectively added. This catalyst component can be included in an inorganic oxide matrix material and used as a catalyst. Preferably, the compound for promoting dehydrogenation and increasing Lewis acidity is effectively added to a non-framework portion of the crystalline microporous oxide.