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(54) Title: A PROCESS FOR REJUVENATING A CATALYST COMPOSITION

(57) Abstract: This disclosure relates to a method for rejuvenating a catalyst, comprising contacting the catalyst with a gaseous feedstock at rejuvenation conditions for at least one hour to form a rejuvenated catalyst and a gaseous product, wherein the catalyst comprises at least 10 wt.% of a molecular sieve, wherein the catalyst prior to the contacting step comprises from 0.001 wt.% to 45 wt.% of hydrocarbons and 0.001 to 10 wt.% nitrogen containing components based on the total weight of the catalyst prior to the contacting step, wherein the molecular sieve comprises at least one of a MCM-22 family molecular sieve, a molecular sieve having a framework type of *BEA, a molecular sieve having a framework type of FAU, and a molecular sieve having a framework type of MOR, wherein the gaseous feedstock comprises at least one of N₂, H₂, alkane, He, Ar, CO, and CO₂, wherein the gaseous product has at least a portion of the gaseous feedstock and at least a portion of the hydrocarbons of the catalyst and at least a portion of the nitrogen containing components of the catalyst, wherein the rejuvenation conditions comprise a temperature in the range from about 400 to 6000C, a pressure in the range from about 101.3 kPa-a to 10130 kPa-a, a space hourly velocity in the range of from 0.05 to 10 hr⁻¹.

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