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(54) Title: CATALYSTS WITH MODIFIED ACTIVE PHASE DISPERSION AND METHOD TO PREPARE CATALYSTS WITH MODIFIED ACTIVE PHASE DISPERSION

(57) Abstract: Catalyst particles comprising one or more active metal components and methods for manufacturing such catalyst particles are provided. The particles are a composite of a granulating agent or binder material such as an inorganic oxide, and an ultra-stable Y (hereafter "USY") zeolite in which some of the aluminum atoms in the framework are substituted with zirconium atoms and/or titanium atoms and/or hafnium atoms. The one or more active phase components are incorporated prior to mixing the binder with the post-framework modified USY zeolite, extruding the resulting composite mixture, and forming the catalyst particles. The one or more active phase components are incorporated in the binder material prior to forming the catalyst particles.



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