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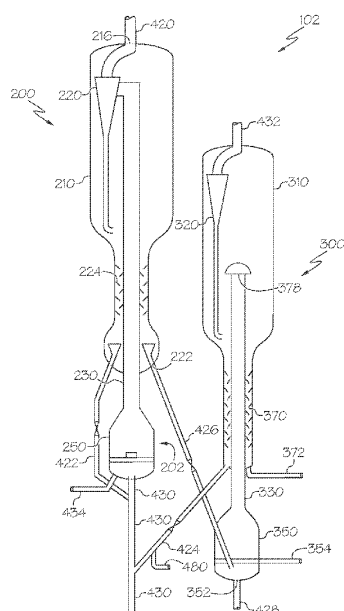
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(54) Title: CATALYSTS FOR DEHYDROGENATION PROCESS



(57) Abstract: A method for dehydrogenation of one or more hydrocarbons and regeneration and reactivation of a catalyst composition includes contacting a first gaseous stream comprising a first hydrocarbon, such as propane, with a catalyst composition in a dehydrogenation reactor at a first temperature, thereby producing a first dehydrogenated hydrocarbon, such as propylene, and a deactivated catalyst composition; combusting at least one fuel gas and coke on the deactivated catalyst in the presence of oxygen at a second temperature, thereby producing a heated catalyst composition; and reactivating the catalyst in the presence of oxygen. The second temperature is from 50 °C to 200 °C greater than the first temperature. The catalyst composition is also described and comprises gallium, platinum and a further noble metal, such as palladium.

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