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(54) Title: KETONIZATION PROCESS USING OXIDATIVE CATALYST REGENERATION

(57) Abstract: Processes for fatty acid ketonization and alcohol dehydration, wherein an alumina catalyst disposed in, or removed from, a reaction zone may be regenerated by contacting the catalyst with steam during or after a coke oxidizing step. In an embodiment, such processes may provide C₂ - C₄₃ alkenes. In another embodiment, such processes may provide C₁₁ - C₄₃ ketones, which can be deoxygenated to give saturated hydrocarbons, unsaturated hydrocarbons, and mixtures thereof. Base oils and transportation fuels may be produced via such processes.

