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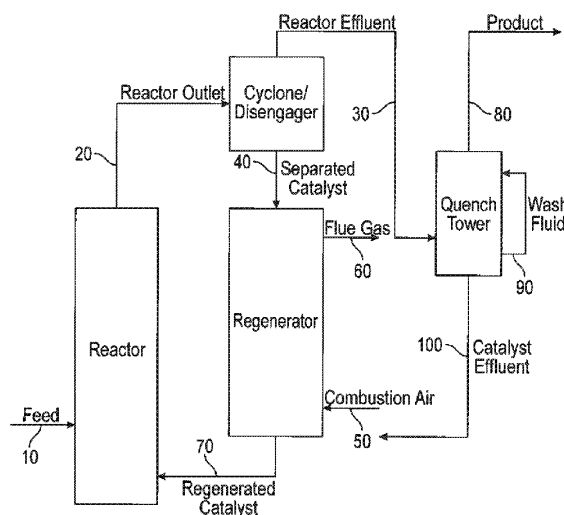


FIGURE 1

(57) Abstract: A paraffin having 2-8 carbon atoms may be dehydrogenated by contacting the paraffin with metal oxide catalyst(s) to produce light olefins, such as propylene, under certain reaction conditions in a riser, fluidized bed, or fixed-bed swing reactor. The resulting metal oxide catalyst fines contained in the reactor effluent stream formed by the dehydrogenation reaction may be recovered by contacting the reactor effluent stream with a wash fluid to form a catalyst effluent stream that is subsequently slurried and filtered to capture the catalyst fines for potential reuse.

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