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(71) Applicant (for all designated States except US): **EXXON-MOBIL CHEMICAL PATENTS INC.** [US/US]; 5200 Bayway Drive, Baytown, TX 77520 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HERSHKOWITZ, Frank** [US/US]; P.O. Box 172, Liberty Corner, NJ 07938 (US). **BUCHANAN, John, S.** [US/US]; 13 Terrell Road, Lambertville, NJ 08530 (US). **DECKMAN, Harry, W.** [US/US]; 2 Woods Edge Court, Clinton, NJ 08809 (US). **FREDERICK, Jeffrey, W.** [US/US]; 13713 Cabells Mill Drive, Centreville, VA 20120 (US).

(74) Agent: **JAMES, Rick, F.**; ExxonMobil Chemical Company, Law Technology, P.O. Box 2149, Baytown, TX 77522-2149 (US).

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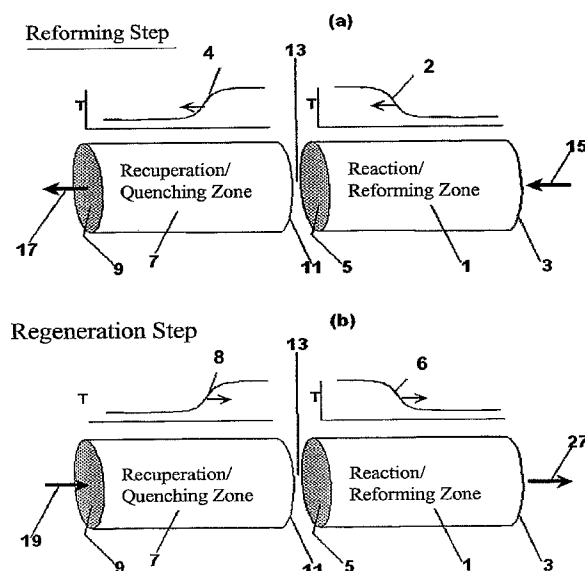
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(54) Title: MANUFACTURE OF ACETYLENE FROM METHANE



(57) Abstract: The present invention provides a process for the manufacture of acetylene and other higher hydrocarbons from methane feed using a reverse-flow reactor system, wherein the reactor system includes (i) a first reactor and (ii) a second reactor, the first and second reactors oriented in a series relationship with respect to each other, the process comprising supplying each of first and second reactant through separate channels in the first reactor bed of a reverse-flow reactor such that both of the first and second reactants serve to quench the first reactor bed, without the first and second reactants substantially reacting with each other until reaching the core of the reactor system.

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