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(54) Title: STEAM CRACKING A HYDROCARBON FEED COMPRISING ARSENIC

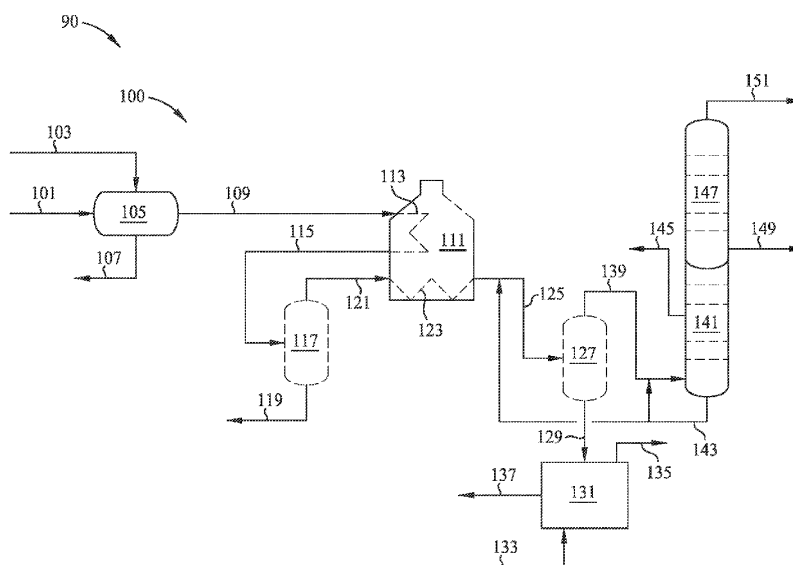


FIG. 1

(57) Abstract: A process for producing light olefins from a hydrocarbon feed comprising arsenic at an initial quantity. The process can comprise one of more of: introducing the hydrocarbon feed to a desalter to produce a desalted hydrocarbon feed having a reduced quantity of arsenic; preheating the desalted hydrocarbon feed; introducing the preheated hydrocarbon feed to a flash separation vessel to produce an overhead fraction and a bottoms fraction; introducing the overhead fraction and steam to a radiant section of the steam cracker operated under steam cracking conditions to produce a steam cracked effluent; and separating the steam cracked effluent to obtain a steam cracker tar, a steam cracker gas oil, a naphtha cut, and a process gas stream; and recovering an olefin product stream from the process gas stream. Arsenic quantities in various streams in the process can be calculated and controlled.

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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