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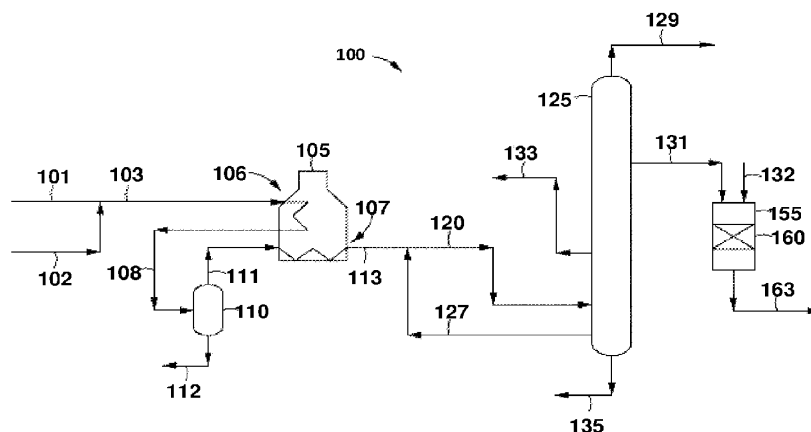


FIG. 1

(57) Abstract: Processes and systems for pyrolysing a hydrocarbon feed for a predetermined period of time, e.g., by steam cracking. The process can include determining a first amount of silicon material present in the hydrocarbon feed that is to be steam cracked to produce a steam cracker effluent. The process can also include determining a second amount of silicon material that will be present in a steam cracker naphtha that is to be separated from the steam cracker effluent.

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