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(54) Title: METHODS AND APPARATUS FOR PRODUCING SYNGAS

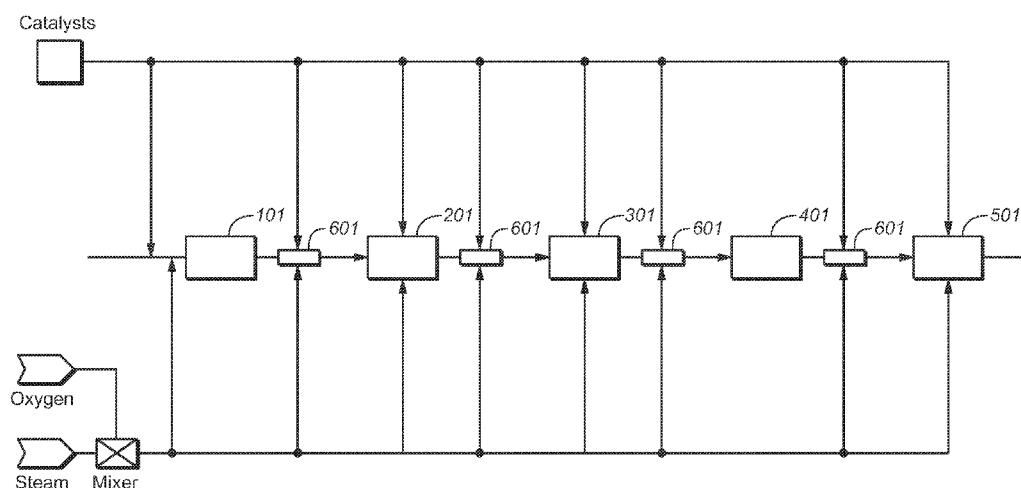


FIG. 1

(57) Abstract: This invention features methods and apparatus for producing syngas from any carbon-containing feed material. In some embodiments, a substoichiometric amount of oxygen is used to enhance the formation of syngas. In various embodiments, both oxygen and steam are added during the conversion of the feed material into syngas. The syngas can be converted to alcohols, such as ethanol, or to other products.

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