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(54) Title: METHOD FOR PRODUCING ETHYLENE FROM CARBON DIOXIDE

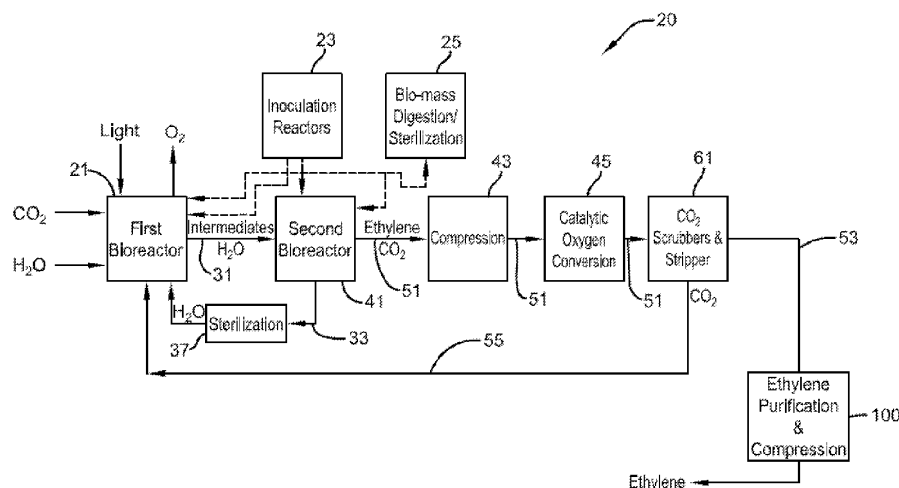


FIG. 1

(57) Abstract: A process comprising (i) providing a gaseous stream including greater than 1 % by volume carbon dioxide; (ii) providing water; (iii) converting the carbon dioxide and the water to an organic intermediate and oxygen gas in the presence of light; (iv) separating the oxygen gas from the organic intermediate; and (v) converting the organic intermediate to ethylene and carbon dioxide after said step of separating the oxygen gas from the organic intermediate.

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