ABSTRACT

THE USE OF BY-PRODUCT CARBON DIOXIDE FROM A STEAM METHANE REFORMER IN AN ALGAE BIOFUEL PRODUCTION PROCESS

Carbon dioxide that is collected as a by-product of hydrogen production from a steam methane reformer (SMR) is used as a feed stock for growth of algae biomass for various purposes, e.g. biofuel production, chemical intermediates, nutraceuticals or pharmaceuticals. This invention helps reduce emissions of carbon dioxide, a known greenhouse gas, and helps to optimize algae growth that is used for the production clean biofuel to reduce the dependence on petroleum and fossil fuels.

FIG. 1

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