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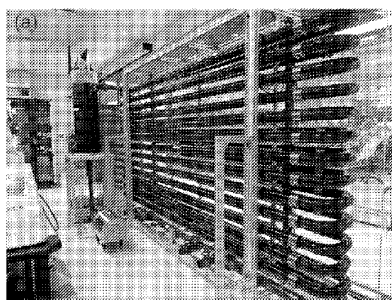


FIG. 2

(57) Abstract: This invention provides a method of cultivating purple phototrophic bacteria (PPB), the method including the steps of: (a) feeding a mixed bacterial population comprising PPB and a wastewater into a tubular reactor; (b) circulating the bacterial population and wastewater in the tubular reactor under near- infra red (NIR) irradiation for a period of time and harvesting a portion of a resulting biomass; and (c) repeating step (b). The invention also provides a biomass obtained from the method, which can be used for plant cultivation.

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