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(54) Title: A DISTRIBUTED ALGAE MANUFACTURING ASSEMBLY

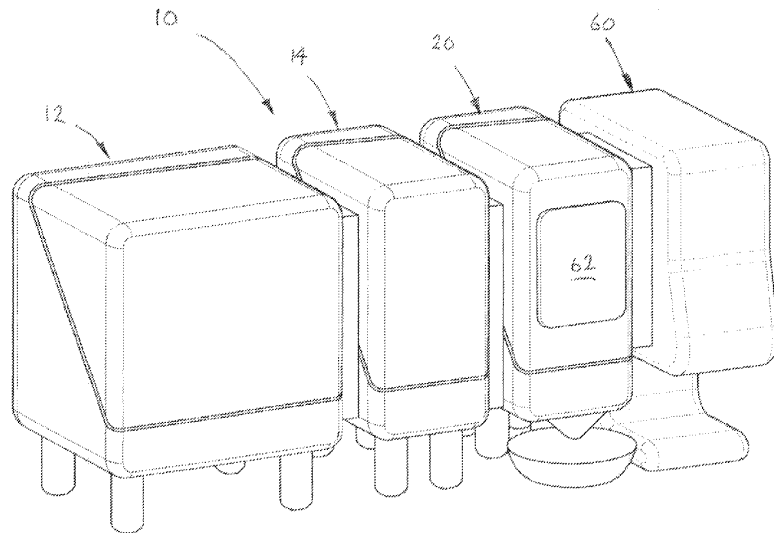


Fig. 1

(57) Abstract: The present invention is broadly directed to a distributed algae manufacturing assembly (10) comprising: 1. an atmospheric carbon dioxide (CO₂) extractor sub-assembly (12) configured for direct capture of CO₂ from air; 2. a bioreactor (14) including (a) a growth chamber (16) arranged to cooperate with the CO₂ extractor sub-assembly (12) to stimulate growth of algae, and (b) a light source (18) associated with the growth chamber (16) to promote growth of the algae within the bioreactor (14). The distributed algae manufacturing assembly (10) produces algae typically as a source of protein for human consumption. It is to be understood that the invention extends to the distributed manufacture of algae and its various derivatives. The distributed assembly (10) may be of a portable benchtop design intended to be located indoors in food preparation and consumption areas at home, business, or community places.

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