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(54) Title: METHODS AND SYSTEMS OF PRODUCING NUTRITIONAL SUPPLEMENT FROM MICROBIAL CELLS

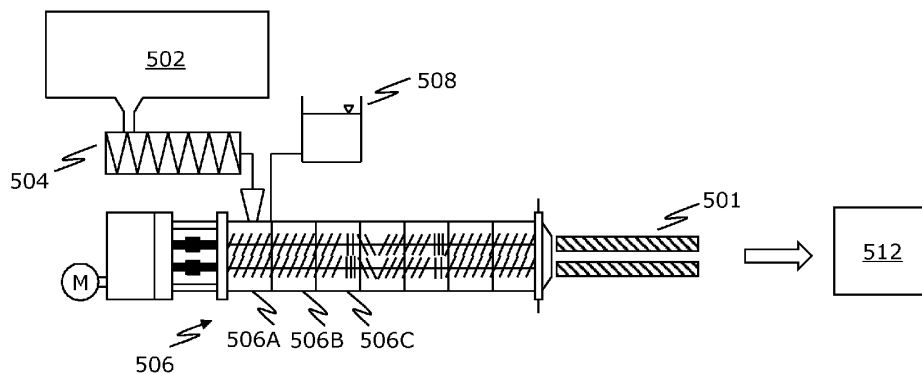


FIG. 6

(57) Abstract: Disclosed is a method of producing a nutritional supplement from microbial cells. The method comprises cultivating microbial cells to obtain a biomass; incubating the biomass with a heat treatment at temperature from 55°C up to 80°C for an incubation time from 10 minutes up to 60 minutes; concentrating the biomass by separating and removing a liquid phase from a solid phase to obtain a dry matter content from 2% up to 40% of total weight of the nutritional supplement. Disclosed also is a system of producing a nutritional supplement from microbial cells using the aforementioned method. The system comprises a bioreactor; a heat-exchanger and a separator for carrying out the respective steps of the aforementioned method.

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