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(54) Title: BIOMASS PREDICTION/ESTIMATION SYSTEM BASED ON PARAMETER SENSING FOR FIXED BED BIORE-
ACTOR AND RELATED METHODS

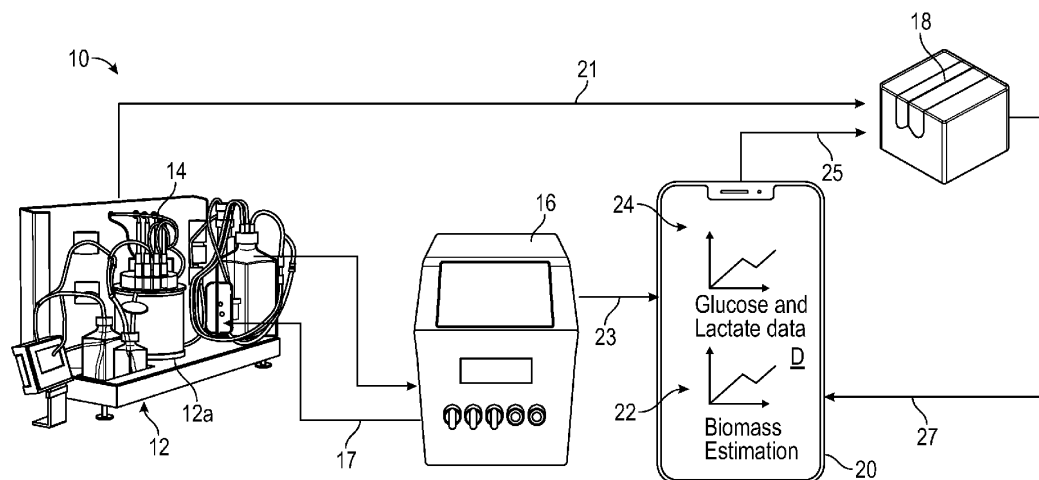


FIG. 1

(57) Abstract: A system for biomass sensing includes a fixed bed bioreactor including a container and a fixed bed disposed within such container. At least one sensor is for sensing one or more parameters representative of biomass in the fixed bed. A controller is adapted for correlating the one or more parameters to an amount of biomass of the fixed bed bioreactor, such as using a correlation model. Related systems and methods are also described.

[Continued on next page]

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