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(54) Title: METHOD, SYSTEM AND CONTROLLER FOR PROCESS CONTROL IN A BIOREACTOR

(57) Abstract: A method of controlling additive delivery during a bioreaction in a bioreactor comprises running a bioreaction in a bioreactor including adding additive into the bioreactor during spaced-apart feed events, where contents of the bioreactor equilibrate during a stabilisation period after a feed event; making in situ measurements of a bulk physical property of the bioreactor contents during the bioreaction to obtain process trend data; calculating a derivative of process trend data obtained over a measurement period beginning after a stabilisation period, the derivative being a metabolic rate index (MRI); and using the MRI to determine a time for starting a next feed event. A controller for a bioreactor and a bioreactor system are configured to operate according to the method.

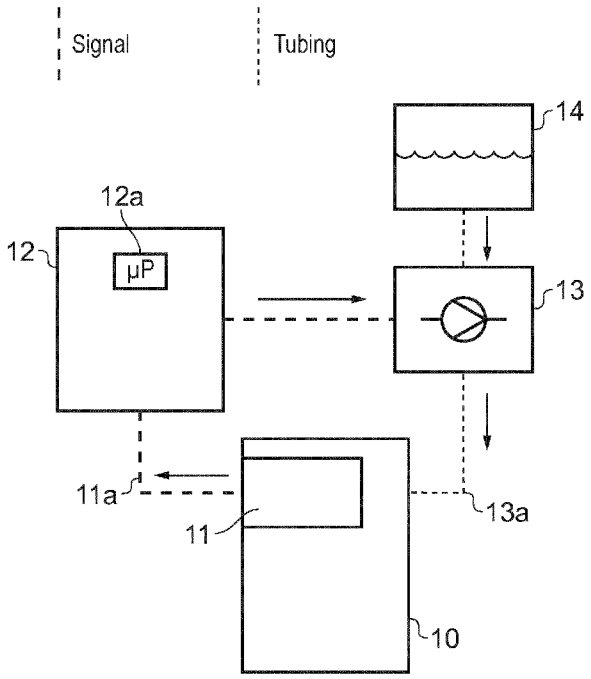


FIG. 1

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