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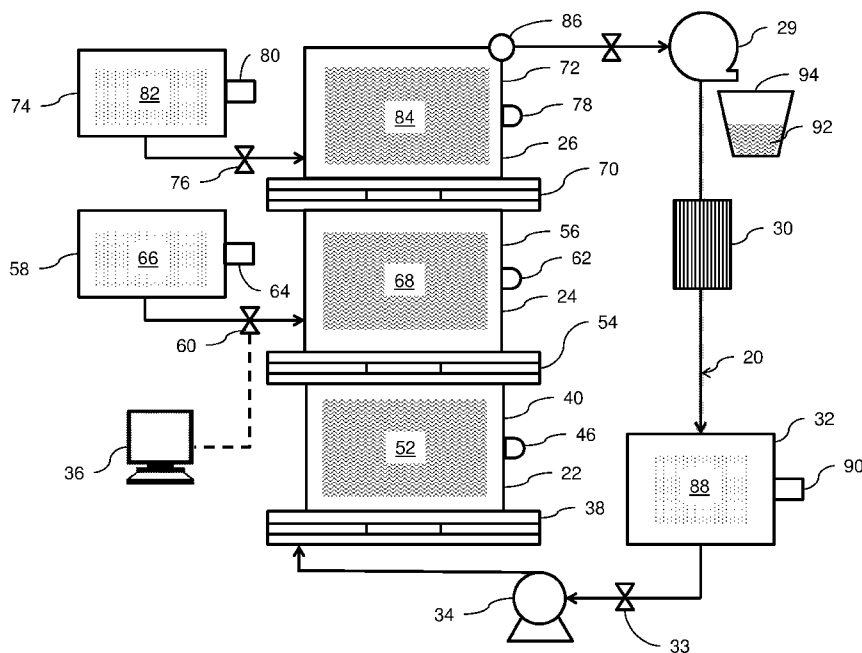


Fig. 1

(57) Abstract: A photobioreactor for cultivating photoautotrophs that comprises a first hatcher for containing the photoautotrophs and a first feed medium; a second hatcher for holding the photoautotrophs and a second feed medium; and a pump connected to the first hatcher, the second hatcher or both the first hatcher and the second hatcher for moving the photoautotrophs between the first hatcher and the second hatcher or vice versa.