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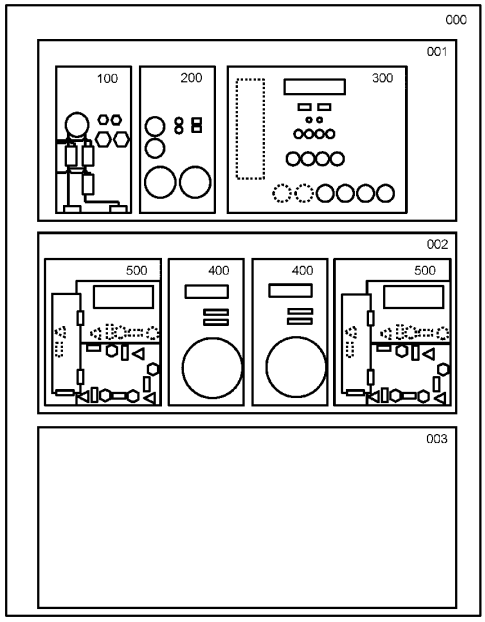


FIG. 1

(57) Abstract: The present disclosure is directed to the organic growth and phasing design for a system for the industrial growth of biologics. A system may include a number of subsystems, such as a buffer distribution subsystem, a media preparation subsystem, a bioreactor subsystem, a harvest subsystem, and/or a purification subsystem. The subsystems may be highly interconnected for flexible process flow design. Additionally, the subsystems may be constructed with a total output capacity with a total number of equipment stations and operated at a lower output capacity with fewer than the total equipment stations to maintain headroom for growth in phases.

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