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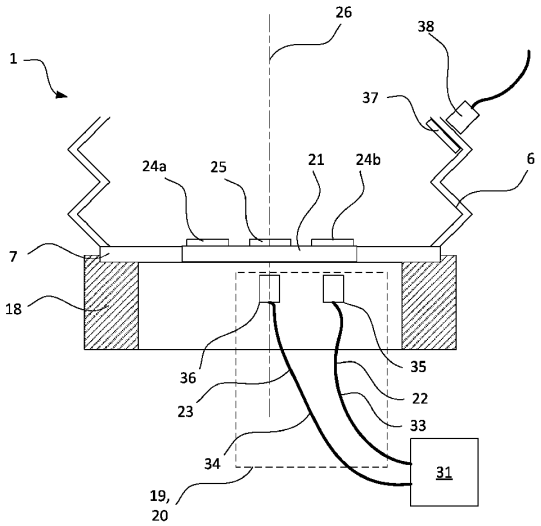


FIG. 8

(57) Abstract: The present disclosure provides a bioreactor for cell culturing. The bioreactor comprises a container comprising a base and a side wall defining an internal volume for holding a cell suspension. The container is rotatable during use about a rotational axis. The bioreactor also includes a sensor element disposed on an internal surface of the container for interaction with a sensor receiver positioned externally of the container and operable to interact with the sensor element to detect a characteristic of the cell suspension. The sensor element is offset from the rotational axis of the bioreactor and arranged to align with the sensor receiver in at least two rotational positions of the bioreactor during use.

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