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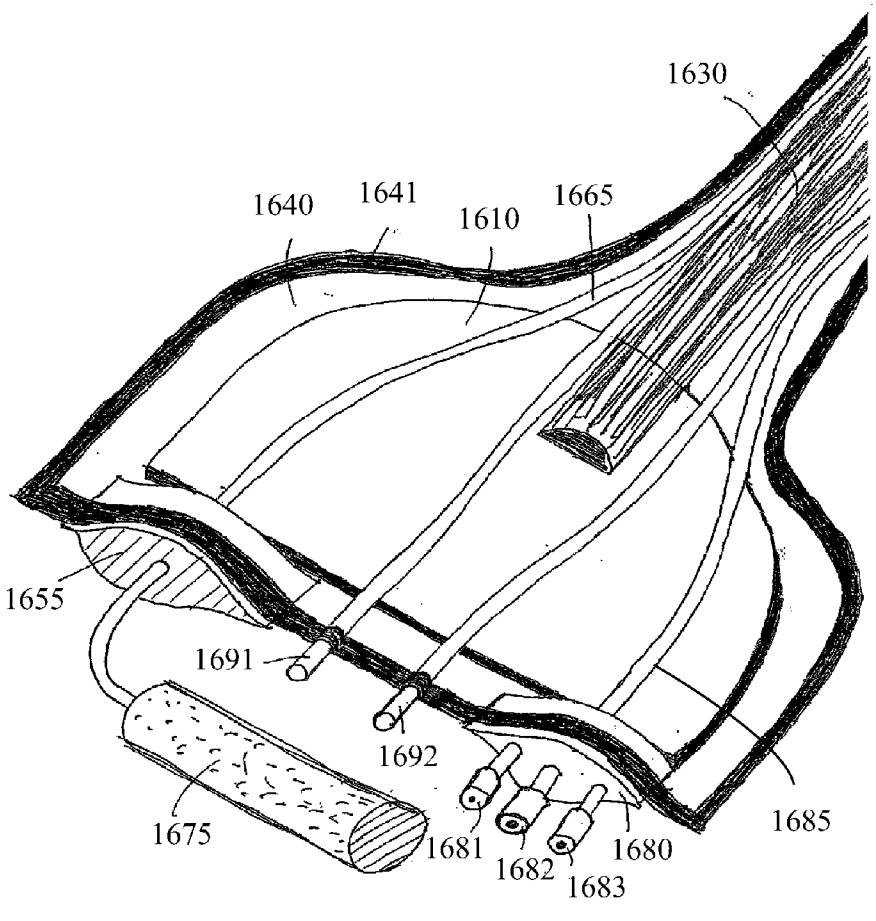
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(54) Title: DISPOSABLE BIOREACTOR



(57) Abstract: A disposable material processing apparatus, useable as a bioreactor or fermenter, includes a hollow tank and a mixing paddle disposed within the interior of the tank and adapted to mix contents therein. The paddle may be isolated within a flexible sleeve. Various functional elements, such as a sparger, sensor, material extraction conduit, material addition conduit, and/or heat exchange element may be provided, and optionally arranged to travel with the paddle within the tank interior. Baffles may protrude into a mixing tank to enhance mixing. A tank and/or sleeve may comprise polymeric film material.

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