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(54) **Title:** BIOREACTOR APPARATUS

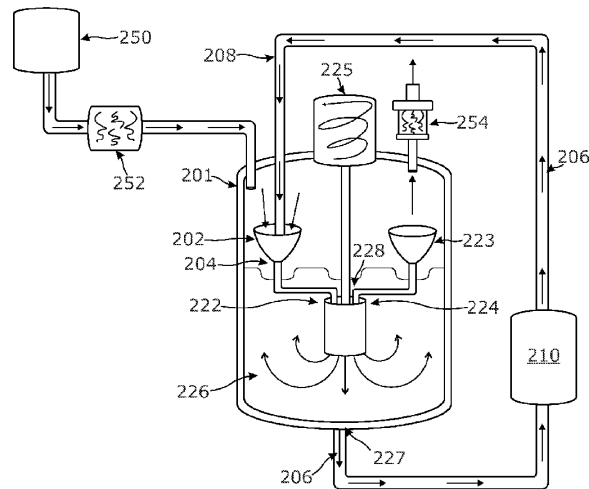


Figure 2

(57) **Abstract:** Bioreactor apparatus and methods for bioreactor processing are disclosed. A bioreactor apparatus has a vessel for containing liquid media and a head space gas and a Venturi pump assembly. The Venturi pump assembly has a media outlet conduit; a media inlet conduit; a pump device, configured to draw media from the vessel through the media outlet conduit and pass it to the media inlet conduit; and a foam collector member. The foam collector member has a mouth portion disposed within the vessel at a liquid media surface position; and a narrowed throat portion. The media inlet conduit is adapted to direct pumped media through the throat portion of the foam collector member, to generate therein a region of reduced pressure for aspirating surface foam into the mouth portion of the foam collector member.

[Continued on next page]

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