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(54) Title: PIPE-BASED BIOREACTORS FOR PRODUCING COMESTIBLE MEAT PRODUCTS AND METHODS OF USING THE SAME

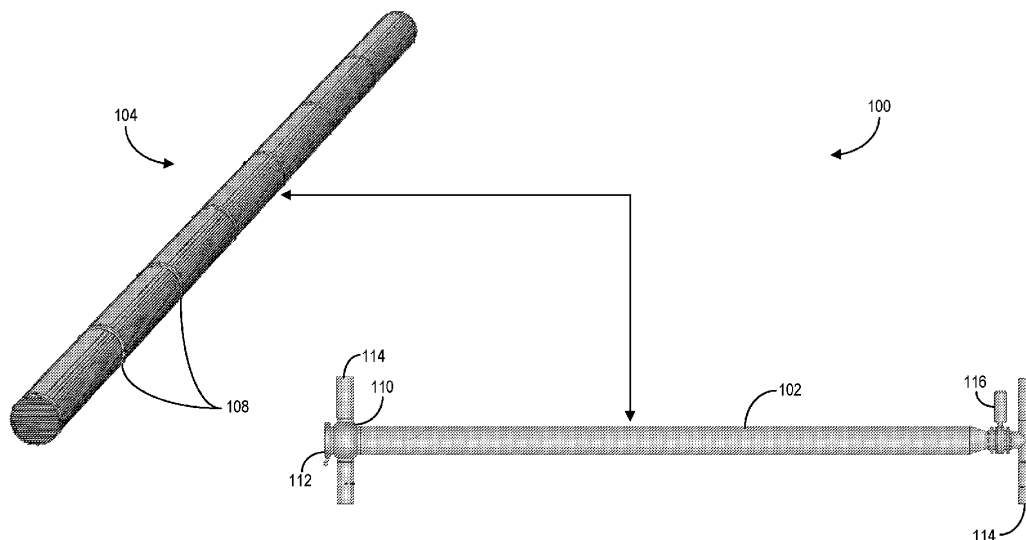


Fig. 1

(57) Abstract: The present disclosure relates to systems, apparatuses, and methods for preparing cell-based meat products (i.e., comestible meat products). In particular, a pipe-based bioreactor is disclosed having one or more substrates disposed therein. In one or more embodiments, the one or more substrates comprise a plurality of nominally spaced substrates conforming to an interior profile of an elongated enclosure of the pipe-based bioreactor. In some embodiments, multiple pipe-based bioreactors are interconnected a fluid source for preparing cell-based meat products. In addition, various methods and procedures for utilizing embodiments of pipe-based bioreactors are disclosed.

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