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(54) Title: PROCESS FOR PRODUCING COOKABLE, FIBROUS MEAT ANALOGS WITH DIRECTIONAL FREEZING

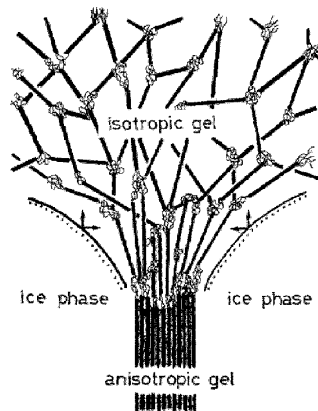


FIGURE 1

(57) Abstract: The present disclosure provides a process for producing "cookable", fibrous meat analogs employing directional freezing. The process includes subjecting an ingestible hydrocolloid to directional freezing for inducing formation of elongated ice crystals in which the elongated ice crystals are aligned in a given direction in the directionally frozen hydrocolloid. Following this, elongated ice crystals are removed and are replaced by proteins and any other additives such as supplements which are located in the aligned channels originally containing the aligned ice crystals. Once the desired amount of protein loading is achieved, the protein-loaded hydrocolloid is subjected to conditions suitable to induce gelling of some of proteins to form protein gels in the aligned elongated channels.

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