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(54) Title: APPARATUSES, SYSTEMS, AND ASSOCIATED METHODS FOR FORMING POROUS MASSES FOR SMOKE FILTERS

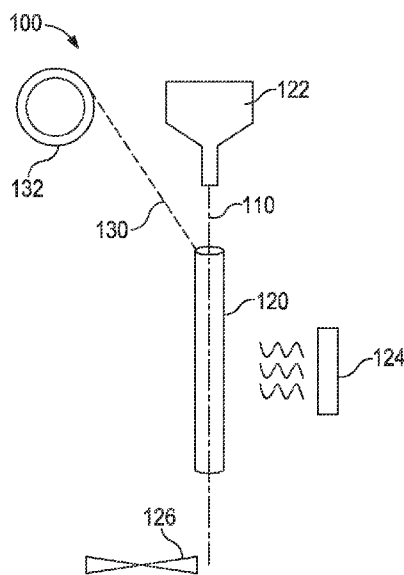


FIG. 1A

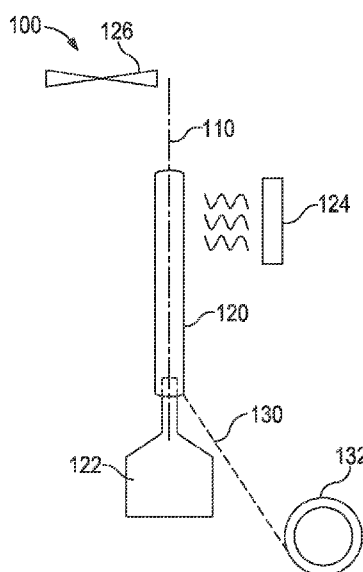


FIG. 1B

(57) Abstract: High-throughput production apparatuses, systems, and associated methods may include pneumatic dense phase feeding. For example, a method may involve feeding via pneumatic dense phase feeding a matrix material into a mold cavity to form a desired cross-sectional shape, the matrix material comprising a binder particle and an active particle; heating (e.g., via microwave irradiation) at least a portion of the matrix material so as to bind the matrix material at a plurality of contact points thereby forming a porous mass length; cooling the porous mass length; and cutting the porous mass length radially thereby producing a porous mass. In some instances, the matrix material may include a plurality of active particles, a plurality of binder particles (optionally having a hydrophilic surface modification), and optionally a microwave enhancement additive.



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