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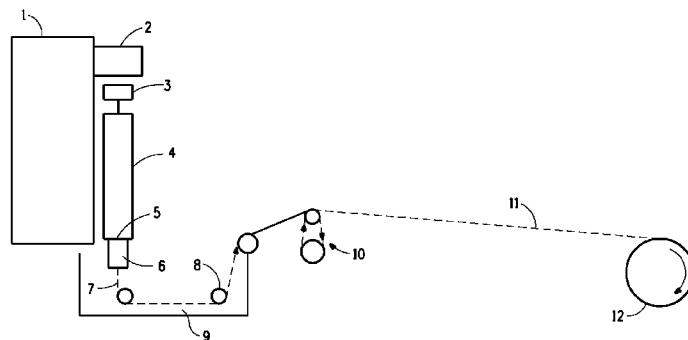


FIG. 1

(57) Abstract: This invention pertains to a novel process for preparing fibers from poly($\alpha(1\rightarrow3)$ glucan). The fibers prepared according to the invention, have "cotton-like" properties, are useful in textile applications, and can be produced as continuous filaments on a year-round basis. The process comprises solution spinning from a novel solution of poly($\alpha(1\rightarrow3)$ glucan) in a mixture of water and N-methylmorpholine-N-oxide followed by coagulation in a liquid coagulant that comprises a liquid that is not water..