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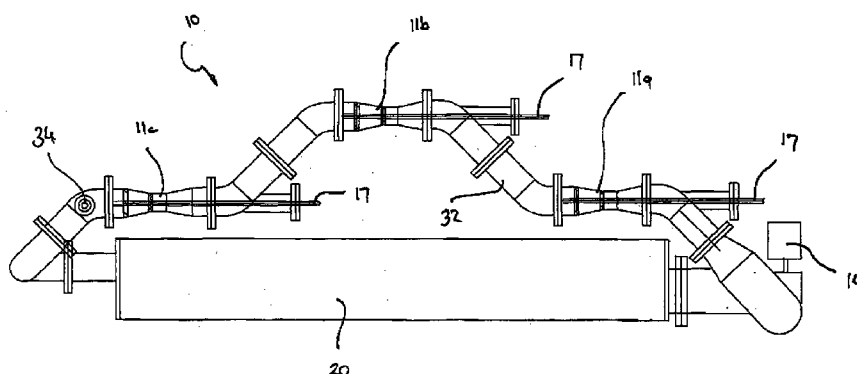


Fig. 1

(57) Abstract: The present invention provides a turbine apparatus (10) for extracting energy from a flowing fluid. The turbine apparatus comprises at least one turbine unit (11) through which the fluid passes, a simulation pump (14) for delivering fluid to the at least one turbine unit, and a reservoir (20) for storing the fluid, wherein the turbine unit is configured to draw the fluid there through.