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(54) Title: PUMP AND COMBINATION PUMP/MIXER DEVICE

(57) Abstract: A pump or combination pump/mixer device uses moving diaphragms in combination with check valves to pump and/or mix fluid. A main inlet is located at the top of the pump and is fed by a vessel or container that contains fluid. The fluid, in response to the moving diaphragms, passes through an outer chamber into a plurality of lower chambers and then into a central chamber where the fluid then exits via one or more outlets. A series of check-valves are used to ensure one-way flow of fluid through the chambers. The drive shaft of a motor or drive unit drives a nutating disk or wobble plate that actuates the diaphragms to drive fluid through the device. In the pump/mixer configuration, one or more additional inlets are provided to input additional fluids into the device for mixing within the inside of the pump/mixer.

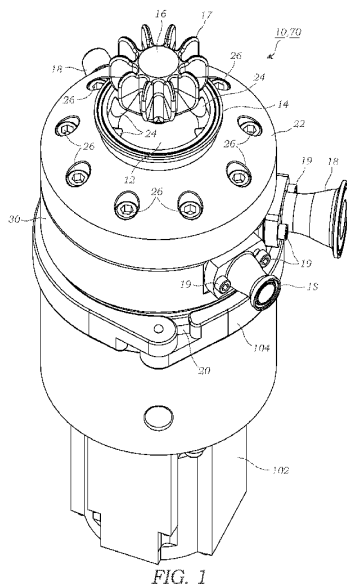


FIG. 1

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