

persons skilled in the art will understand that there are many ways alternative embodiments and applications envisioned. The inventors contemplate that the use of alternative structures, which result in flow proportional sampler using the principles disclosed and the invention claimed, will be within the scope of the claims.

What we claim is:

1. A fluid sampler turbine pump unit comprising:
  - a housing forming an open cylinder and having a first open end and a second open end an axis,
  - an axle in the cylinder and located along the axis, wherein the axle further comprises a propeller end and an eccentric end,
  - a propeller located in the cylinder and mounted on the propeller end of the axle,
  - an eccentric mounted at the eccentric end of the axle, wherein the eccentric is driven directly by the axle,
  - a rod having a first end and a second end, wherein the first end rides on and is actuated by the eccentric end, and
  - a pump connected to the second end of the rod the pump having an inlet to draw fluid in and an outlet to pump fluid out.
2. The fluid sampler of claim 1 wherein the pump is a diaphragm pump.
3. The fluid sampler of claim 1, wherein the eccentric is a wobble-cam.

4. The fluid sampler of claim 1 further comprising a means to detect rotation of the axle.
5. The fluid sampler of claim 1 further comprising a magnet mounted on the rod, a switch adjacent the magnet, and an electrical circuit connected to the switch, wherein movement of the rod opens and closes the electrical circuit, thereby detecting rotation of the axle.
6. A fluid sampler comprising:
  - a housing having a first open end and a second open end and an axis,
  - an axle running on the axis and having an eccentric, wherein the eccentric actuates a rod, the rod having an eccentric end actuated by the eccentric and an actuation end,
  - a turbine mounted on the axle, and
  - a pump connected to the actuation end of the rod, the pump having an inlet to draw fluid in from a fluid source and, an outlet conduit to pump the fluid out, a collector to receive the fluid from the outlet conduit, and a valve to keep the fluid in the collector,
  - a second fluid conduit connected to the collector to receive the fluid released from the collector when the valve is opened,
  - a distributor connected to the second fluid conduit to direct the fluid received from the second fluid conduit to one of a plurality of sample containers.

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