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put which is dependent on the depth of insertion of the electrodes in the flowing liquid; a stepping motor driven pump for continuously taking a sample volume from the liquid; means connected to said electrodes for alternately charging and discharging the capacitance between the electrodes; means connected to said electrodes for converting the charging current of said electrodes into a voltage analogue; means connected to said converting means for raising said voltage analogue to a predetermined power index correlating the depth of insertion of the electrodes and the pressure head of the flowing liquid to produce a flow analogue signal; and

means for converting said flow analogue signal into a pulse train to operate the stepping motor so that said pump takes from the flowing liquid a sample volume proportional to the flow of liquid, said means for raising said voltage analogue comprising a logarithmic amplifier and an exponential amplifier and said power index being greater than 1.0 and less than 2.5.

2. A liquid proportional sampler as claimed in claim 1 wherein the first-mentioned electrode and the further electrode can be inserted together into liquid flowing in a pipe through a single hole in the pipe.

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