

- [54] **WASTEWATER SAMPLER**
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[57] **ABSTRACT**

Effluent is discharged into a flume to flow past a selectively operable sampler device, and an adjacent probe, which develops and transmits to a remote control point a 4 to 20 milliamp signal the amplitude of which is proportionate to the effluent flow rate. At the control point the signal is applied to an integrator which produces an output voltage proportionate to the quantity (gallons) of effluent that has passed the probe in a preceding interval. Each time this voltage reaches a predetermined value a threshold circuit resets the integrator and pulses a first register to record the quantity of effluent for a given period, and simultaneously pulses a presettable counter, which produces a sampler enabling signal every time the counter reaches zero and resets. This enabling signal momentarily energizes a solenoid in a remote sampler to cause it to pump a sample of wastewater from the flume to a sample receptacle.

[56] **References Cited**

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15 Claims, 4 Drawing Figures

