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(54) Title: QUICK TRACER INJECTION FOR MONITORING OSMOSIS MEMBRANE INTEGRITY

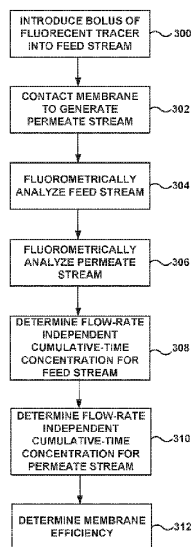


FIG. 5

(57) Abstract: A fluorometric monitoring technique can be used to rapidly evaluate the efficiency of an osmosis membrane. In some examples, the technique includes injecting a bolus of fluorescent tracer into a feed stream. The tracer may be introduced for a period of time less than what is required for the tracer to reach an equilibrium concentration in the permeate stream. The feed stream and the permeate stream may be fluorometrically analyzed to determine a flow rate-independent cumulative-time concentration of the fluorescent tracer in the both streams. The efficiency of the osmosis membrane can then be determined based on these flow rate-independent cumulative-time concentrations.

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