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(54) Title: ON-DEMAND IN-LINE-BLENDING AND SUPPLY OF CHEMICALS

(57) Abstract: This in-line active and reverse calculating mass balance blending system can maintain a chemical at desired control points, such as with respect to concentration, temperature, and/or pressure, while the output flow rate is changing dynamically to a point of use. A blending unit is configured to receive and blend at least two species and deliver a mixture at selected concentrations to points of use. A controller can be configured to determine a mass balance to maintain the concentrations in the mixture using information from metrology systems and a flow in an output to the at least one point of use. The controller also can be configured to maintain a concentrations in the mixture within a concentration range by controlling flow rates to the blending unit.



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