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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR MONITORING CHEMICAL PROCESSES

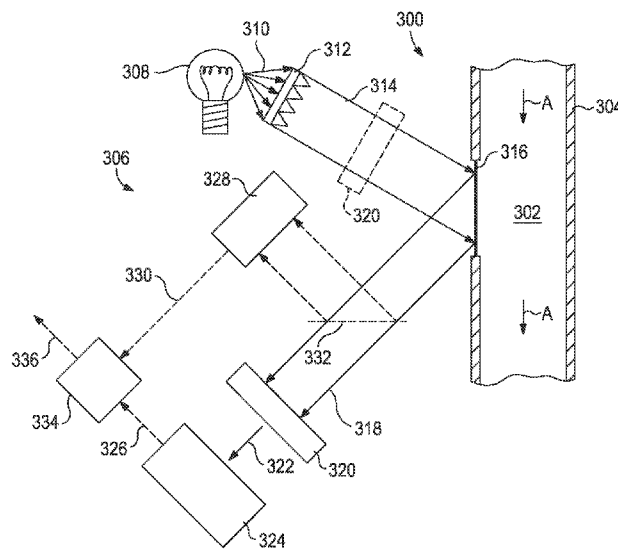


FIG. 3

(57) Abstract: Disclosed are systems and methods for monitoring chemical reaction processes in or near real-time. One method may include containing a fluid within a flow path, the fluid having a chemical reaction occurring therein, optically interacting at least one integrated computational element with the fluid, thereby generating optically interacted light, and producing an output signal based on the optically interacted light that corresponds to a characteristic of the chemical reaction.

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