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(54) **FLOW CELL SPRAY RING**

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(58) **Field of Classification Search** 356/246;
385/138; 73/324; 134/6; 222/156-159;
137/240

See application file for complete search history.

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(57) **ABSTRACT**

A flow cell device for observing a fluid includes a housing defining an inlet and an outlet, a first viewing member, and a second viewing member. The first viewing member, which is disposed in and coupled to the housing, includes a first window and a spray ring. The spray ring includes cleaning ports in fluid communication with a cleaning fluid inlet port. The second viewing member includes a second window and is disposed in and coupled to the housing opposite the first viewing member such that an aperture that is in fluid communication with the inlet and the outlet is defined between the first window and the second window. The spray ring does not extend past a surface of the first window facing the aperture and each of the cleaning ports is oriented such that a fluid provided under pressure to the cleaning ports is ejected toward the second window.

20 Claims, 5 Drawing Sheets

