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(71) Applicant (for all designated States except US): **HAL-LIBURTON ENERGY SERVICES, INC.** [US/US];
10200 Bellaire Boulevard, Houston, TX 77072 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RINGGENBERG, Paul, David** [US/US]; 2118 Goliad Circle, Frisco, TX 75034 (US). **CARDER, Charles, Frederick** [US/US]; 3901 Accent Drive, Apt. 832, Dallas, TX 75287 (US).

(74) Agent: **BOOTH, John, F.**; Booth Albanesi Schroeder LLC, 1601 Elm Street, Suite 1950, Dallas, TX 75201-4744 (US).

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(54) Title: PUMP THROUGH CIRCULATING AND OR SAFETY CIRCULATING VALVE

(57) Abstract: According to one embodiment, a recirculation safety valve is disclosed. The valve has a tubular body with mandrel that is axially shifted in response to annulus pressure. Shifting of the mandrel can either close a safety valve, or close a safety valve and open a recirculation port. The valve has an annular actuation chamber that relieves that pressure to prevent inadvertent shifting of the mandrel.



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