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(54) **Title**: ALTERNATING FLOW RESISTANCE INCREASES AND DECREASES FOR PROPAGATING PRESSURE PULSES IN A SUBTERRANEAN WELL

(57) **Abstract**: A method of propagating pressure pulses in a well can include flowing a fluid composition through a variable flow resistance system which includes a vortex chamber having at least one inlet and an outlet, a vortex being created when the fluid composition spirals about the outlet, and a resistance to flow of the fluid composition alternately increasing and decreasing. The vortex can be alternately created and dissipated in response to flowing the fluid composition through the system. A well system can include a variable flow resistance system which propagates pressure pulses into a formation in response to flow of a fluid composition from the formation.