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(71) Applicant: HALLIBURTON ENERGY SERVICES, INC. [US/US]; P.O. Box 819052, Dallas, TX 75381-9052 (US).

(72) Inventors: SCHWENDEMANN, Kenneth, L.; 708 Bentwood, Lewisville, TX 75067 (US). TOWERS, Darrin, N.; 1753 Arledge, Carrollton, TX 75007 (US).

(74) Agent: SMITH, Marlin, R.; Konneker & Smith, P.C., Suite 230, 660 North Central Expwy., Plano, TX 75074 (US).

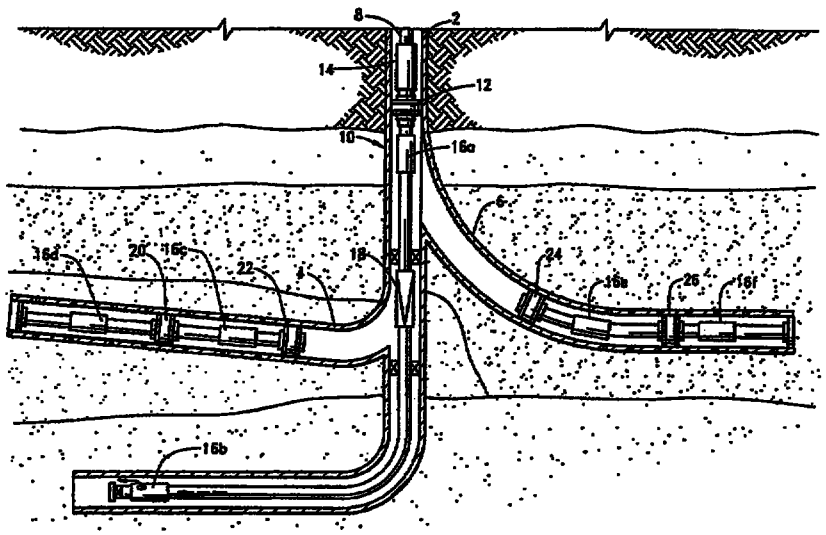
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(54) Title: TOOL AND METHOD FOR MANAGING FLUID FLOW IN A WELL



(57) Abstract: A tool and method for managing fluid flow in a well use flow control and monitoring functions. A particular tool provides valve and metering functions combined with electrical generator and pump functions. Two of these tools can be used such that one generates electricity downhole to power the other tool to operate as a pump or other flow control. A method of managing fluid flow in a well includes operating the tool in either a generator mode or a pump mode. The tool, which is a flow control device, has a body in which an opening is defined between an annulus outside the body and a flow channel inside. The tool also has a flow control body, a rotor and electromagnetic members. A method includes moving the flow control body, the rotor, and the electromagnetic members together to selectively block or unblock the opening.

WO 01/06090 A2