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(54) Title: PISTON-LESS DOWNHOLE TOOLS AND PISTON-LESS PRESSURE COMPENSATION TOOLS

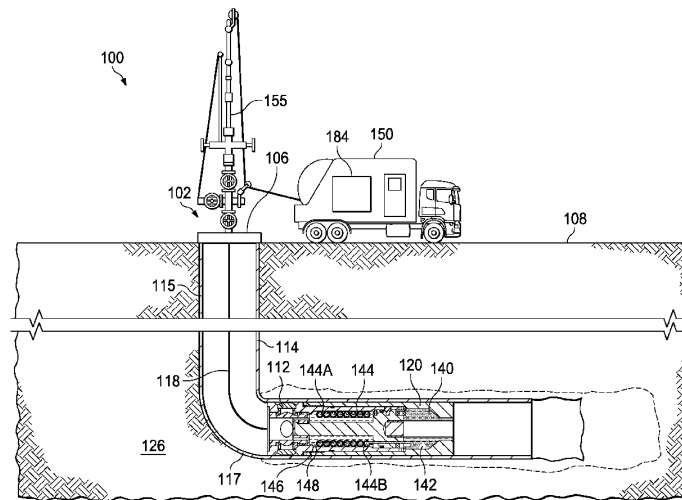


FIG. 1

(57) Abstract: Piston-less downhole tools and piston-less pressure compensation tools are presented. The piston-less downhole tool includes a first chamber comprising a first fluid, the first fluid being a fluid that thermally expands in response to an increase in a temperature of the first fluid. The piston-less downhole tool also includes a tubular having a first end that is fluidly sealed and a second end that is in fluid communication with the first fluid, wherein the tubular is configured to expand in response to thermal expansion of the first fluid. The piston-less downhole tool further includes a second chamber configured to store a second fluid. The tubular of the piston-less downhole tool is configured to contract in response to pressure applied by the second fluid.

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