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(54) Title: A DOWNHOLE TOOL INCLUDING A FREQUENCY FILTER BASED SWITCH SYSTEM CONFIGURED TO FILTER POWER BETWEEN A FIRST DOWNHOLE DEVICE AND A SECOND DOWNHOLE DEVICE

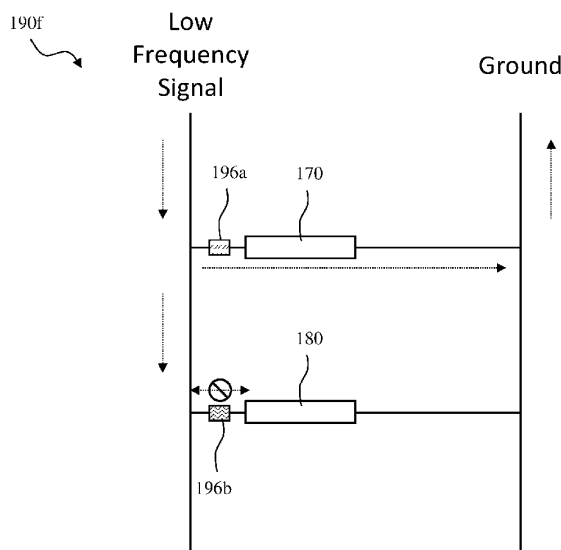


FIG. 1F

(57) Abstract: Provided is a downhole tool, a well system, and a method. The downhole tool, in one aspect, includes a first downhole device. The downhole tool, in one aspect, further includes a switch system electrically coupled with the first downhole tool, the switch system including: 1) an input coupleable to a power source; 2) an output coupled to a first electrical component of the first downhole device and coupleable to a second electrical component of a second downhole device; and 3) a frequency filter, wherein the output is coupled to the first electrical component of the first downhole device via the frequency filter or the output is coupleable to the second electrical component of the second downhole device via the frequency filter, the frequency filter configured to filter power to one of the first downhole device or the second downhole device upon switching a signal of the power source.

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