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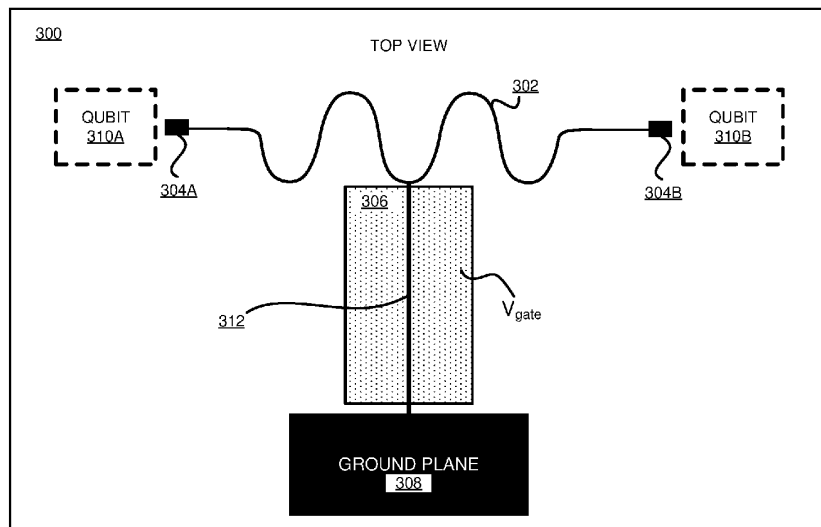
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(54) Title: TUNABLE SUPERCONDUCTING RESONATOR FOR QUANTUM COMPUTING DEVICES

FIGURE 3



(57) Abstract: A superconducting coupling device includes a resonator structure. The resonator structure has a first end configured to be coupled to a first device and a second end configured to be coupled to a second device. A gate is positioned proximal to a portion of the resonator structure. The gate is configured to receive a gate voltage and vary a kinetic inductance of the portion of the resonator based upon the gate voltage. The varying of the kinetic inductance induces the resonator structure to vary a strength of coupling between the first superconducting device and the second superconducting device.

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