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(54) Title: PHYSICAL REALIZATIONS OF A UNIVERSAL ADIABATIC QUANTUM COMPUTER

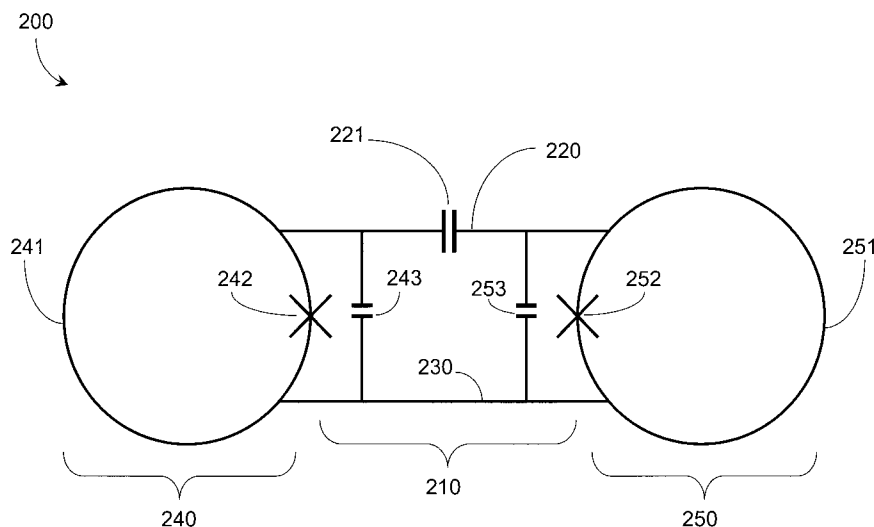


Figure 2

(57) Abstract: Devices, methods and articles advantageously allow communications between qubits to provide an architecture for universal adiabatic quantum computation. The architecture includes a first coupled basis A_1B_1 and a second coupled basis A_2B_2 that does not commute with the first basis A_1B_1 .

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