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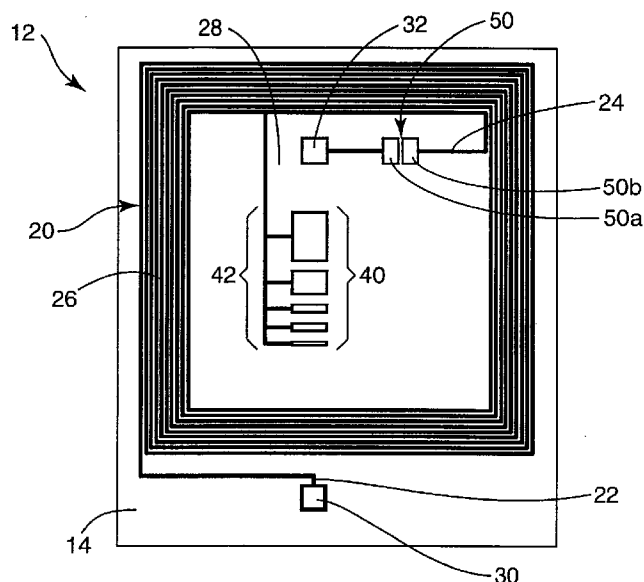
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- (54) Title:** RFID TAG WITH BRIDGE CIRCUIT ASSEMBLY AND METHODS OF USE



- (57) Abstract:** Radio frequency identification tag devices (10) with bridge circuit assemblies (70) and methods for high-volume, low-cost production are disclosed. The bridge circuit assemblies (70) and methods of the present invention can reduce the complexity of the RFID tag devices by providing a one-sided circuit design. The resonant frequency of the circuits formed on the devices may be tuned by severing selected connections (42) to one or more tuning capacitor plates (40) that form a part of the capacitor structure. Severing connections to the tuning capacitor plates changes the capacitance of the circuit that, in turn, changes the resonant frequency of the circuit. Further, the devices and methods of the present invention allow for the option of placing a die either on the antenna substrate or on the bridge circuit assembly.



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