

Multi-Frequency RF Energy Harvesting System and Controller Using Reconfigurable Antennas

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Status:

Seeking R&D and/or
licensing partner

Patent Pending

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Multi-Frequency RF Energy Harvesting System and Controller

- Controller algorithm and circuit
 - Measures available RF energy
- Adjusted antenna design and matching network
 - Reconfigure radio frequency (RF) energy harvesting system
- Allows a wide range of frequencies to be picked up
 - Reconfigurable antenna with switches
- Incorporated into an existing energy harvester
 - Flexible based on device

Advantages of Multi-Frequency RF Energy Harvesting System and Controller

- Reconfigurable antenna with switches
- Maximum amount of energy harvested
 - Fixate the frequency with most energy
- Periodic sweeps
- Antenna/circuitry optimized for single frequency range
- Determines the strongest RF signal

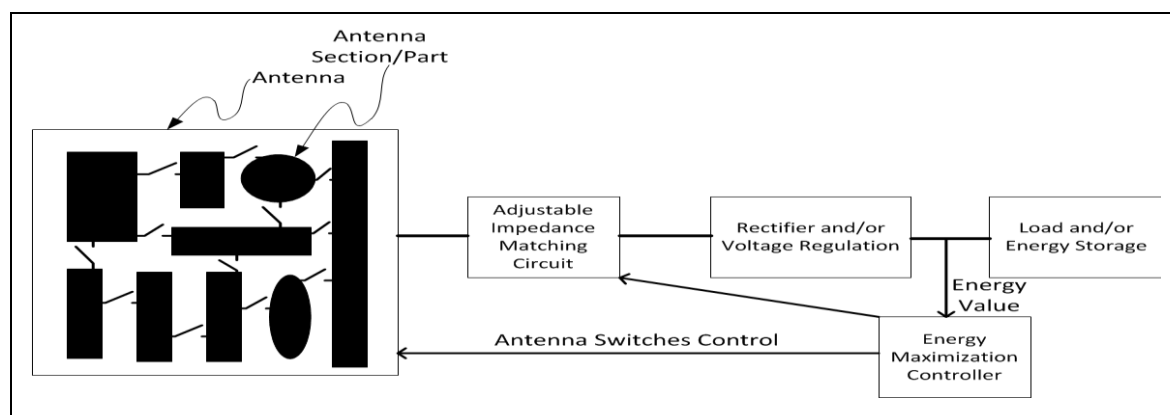


Figure 1. Representative model of Multi-Frequency RF Energy Harvesting System and Controller

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