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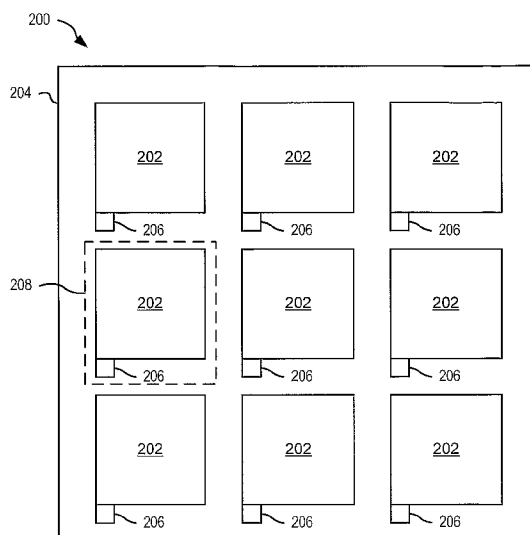
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(54) Title: SYSTEMS AND METHODS FOR RECEIVING AND MANAGING POWER IN WIRELESS DEVICES



(57) Abstract: A system and method harvest energy from radio frequency (RF)/microwave/millimeter-wave power. The system includes a receiving device with at least one antenna (202) and at least one rectifier (206), the receiving device converting the RF/microwave/millimeter-wave power into direct current (DC) electricity. The system also has a power management unit that (a) configures the receiving device based upon the DC electricity, (b) presents a desired load to the receiving device and (c) stores the DC electricity. A software product designs a power source by: interactively interacting with power management design software to select optimum power source configuration for overall combined power source and power management efficiency; optimizing power source circuitry based upon application; selecting appropriate DC network topology and operating characteristics; and selecting appropriate package for integration with power manager based upon simulation of package for power source compatibility.

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