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(54) **INDUCTIVE POWER SOURCE AND CHARGING SYSTEM**

(52) **U.S. Cl. 320/108**

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(57) **ABSTRACT**

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A portable inductive power source, power device, or unit, for use in powering or charging electrical, electronic, battery-operated, mobile, and other devices is disclosed herein. In accordance with an embodiment the system comprises a pad or similar base unit that contains a primary, which creates an alternating magnetic field by means of applying an alternating current to a winding, coil, or any type of current carrying wire. A receiver comprises a means for receiving the energy from the alternating magnetic field from the pad and transferring it to a mobile or other device. In some embodiments the receiver can also comprise electronic components or logic to set the voltage and current to the appropriate levels required by the mobile device, or to communicate information or data to and from the pad. Embodiments may also incorporate efficiency measures that improve the efficiency of power transfer between the charger and receiver.

(21) Appl. No.: **11/669,113**

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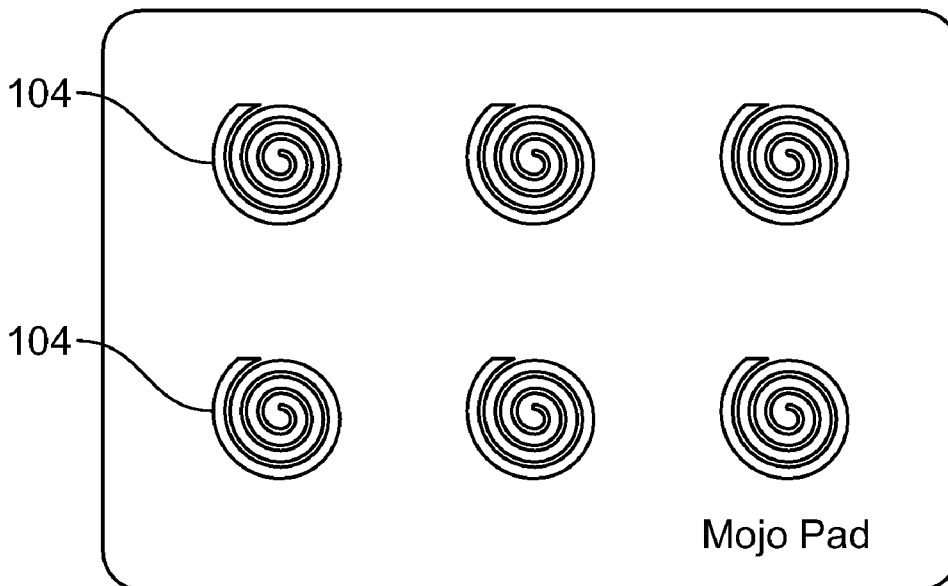
Related U.S. Application Data

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100 →



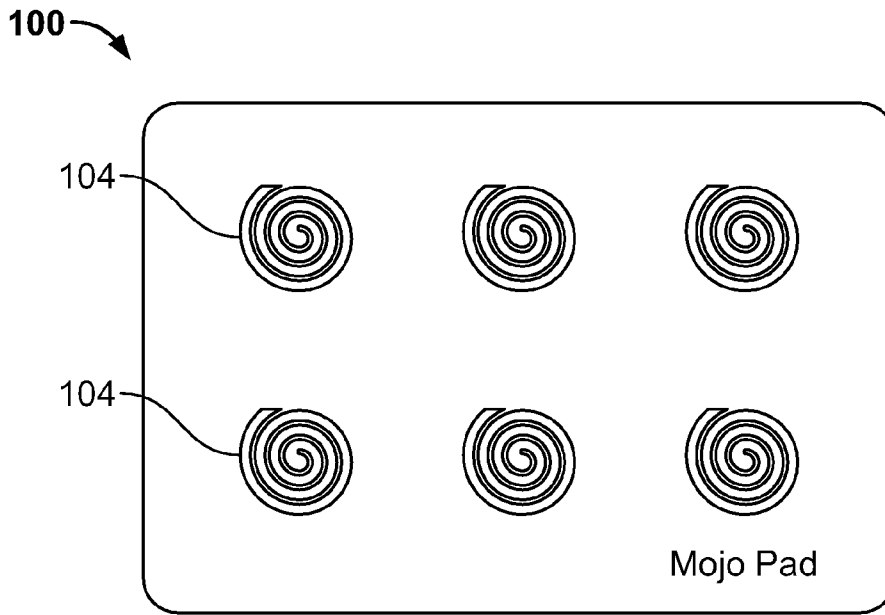


FIG. 1

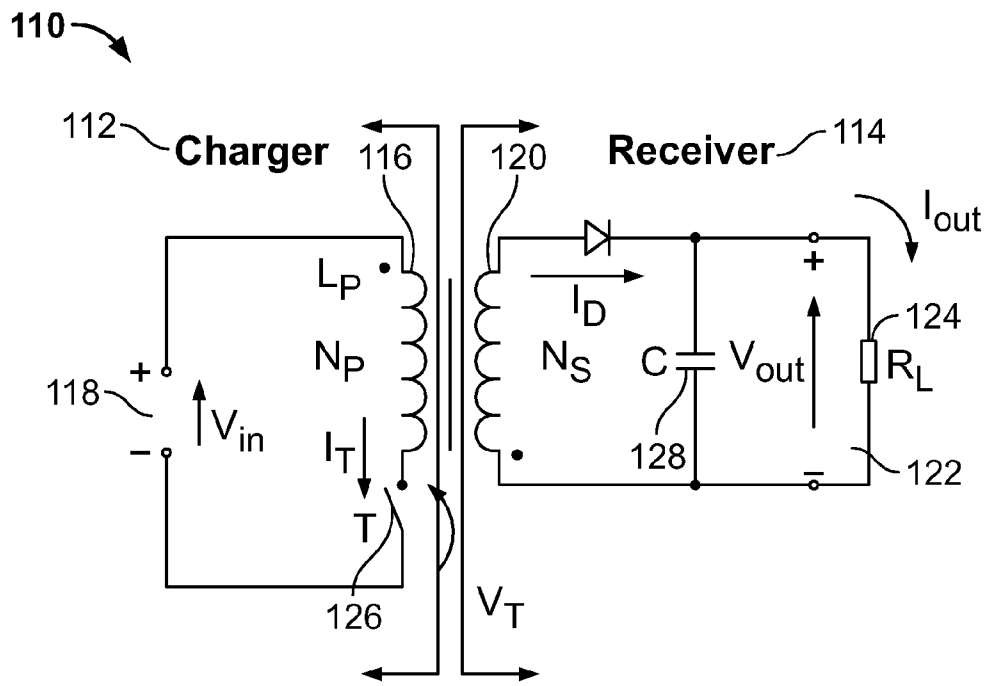


FIG. 2

140

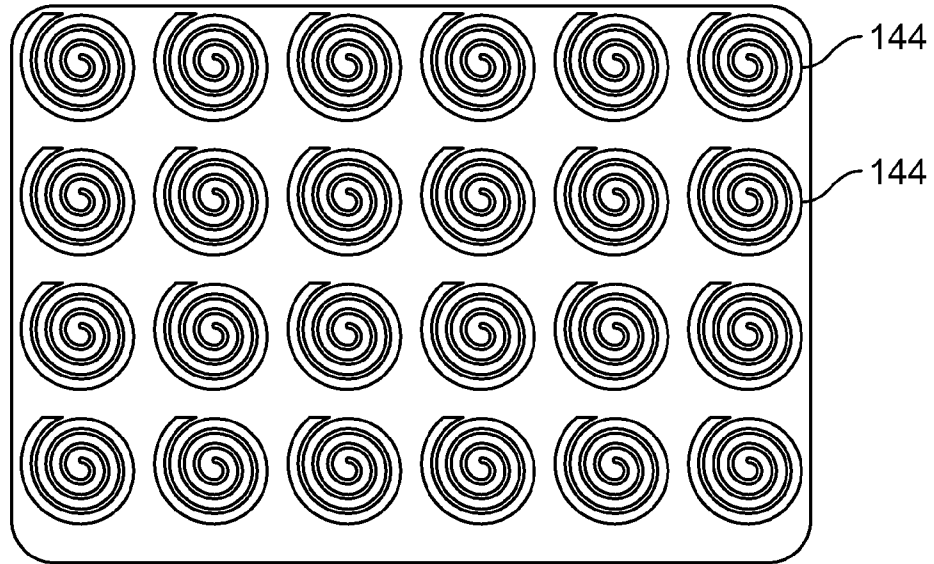


FIG. 3

150

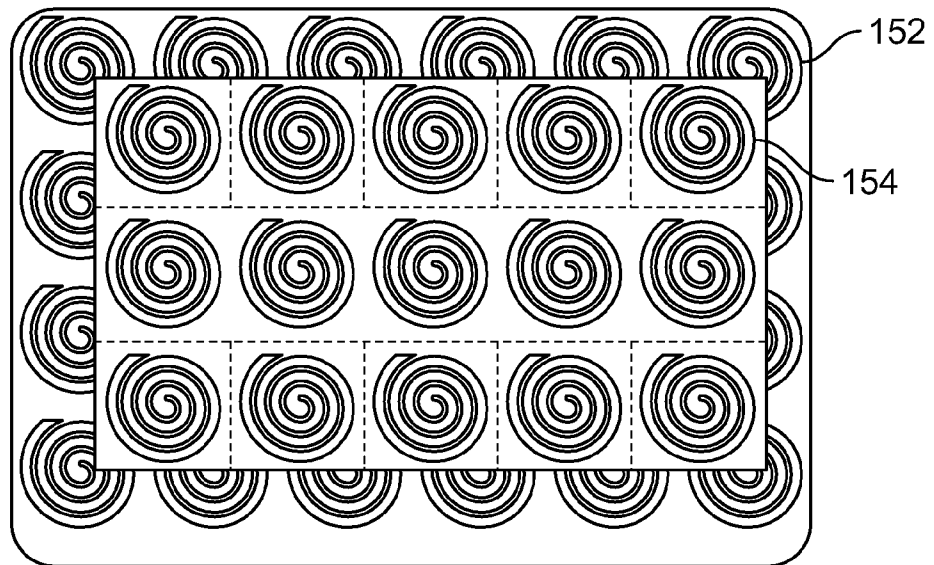


FIG. 4

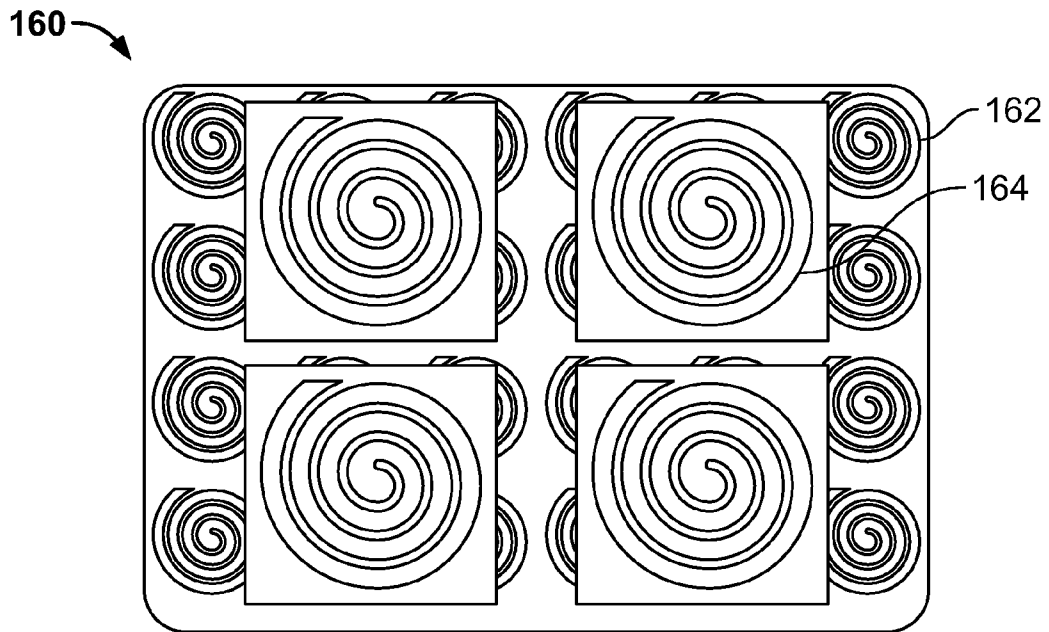


FIG. 5

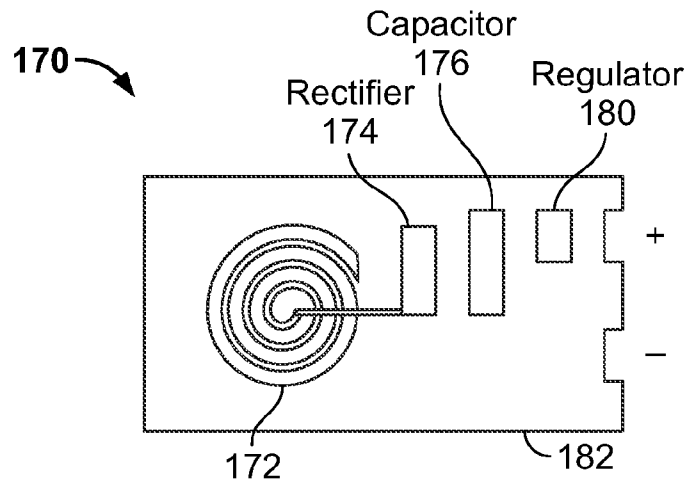


FIG. 6

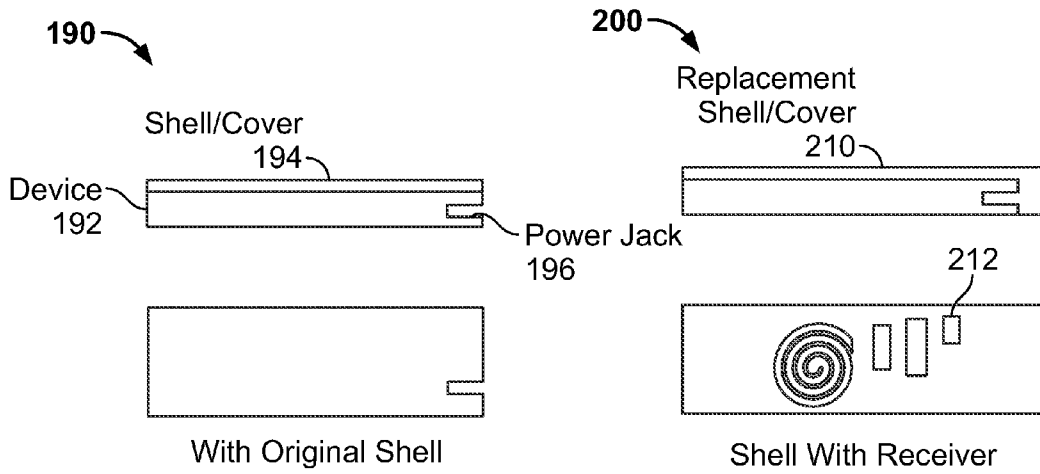


FIG. 7

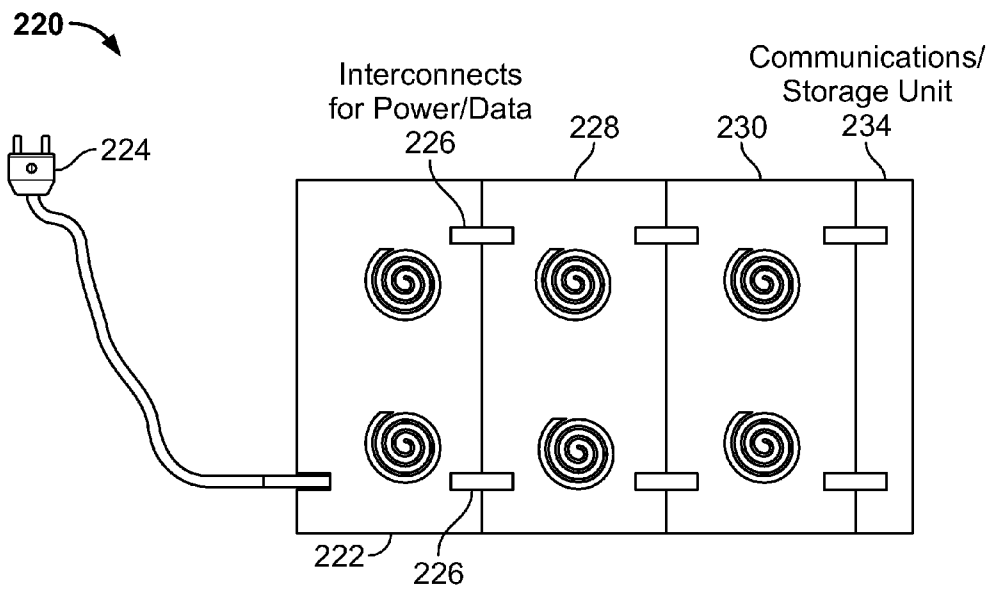


FIG. 8

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