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(54) SYSTEMS AND METHODS FOR INDUCTION CHARGING WITH A CLOSED MAGNETIC LOOP

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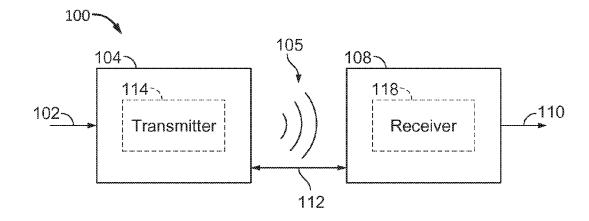
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(57)**ABSTRACT**

Systems, methods, and computer program products for induction charging with a closed magnetic loop are described herein. In one aspect, an apparatus for wireless power transmission comprises a plurality of coplanar coils, each of the plurality of coplanar coils configured to be individually energized and produce a magnetic field. Further, the controller is configured to reverse polarity of the magnetic field of at least one of the plurality of coplanar coils based on a measure of coupling between coils and to select at least two of the plurality of coplanar coils for wireless power transmission based on the measure of coupling between coils.





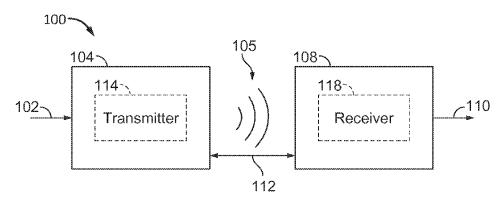
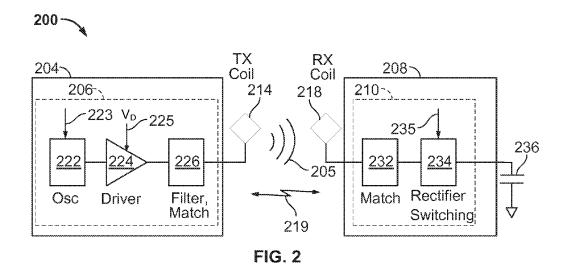
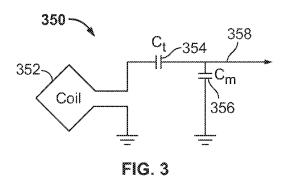


FIG. 1





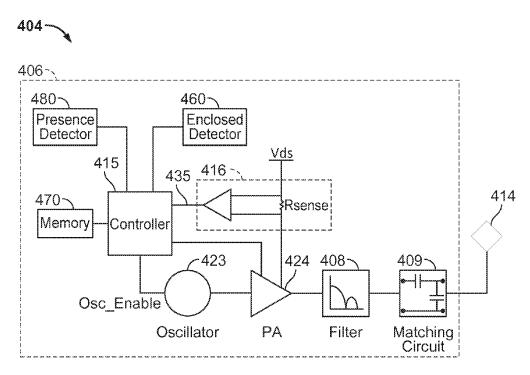


FIG. 4

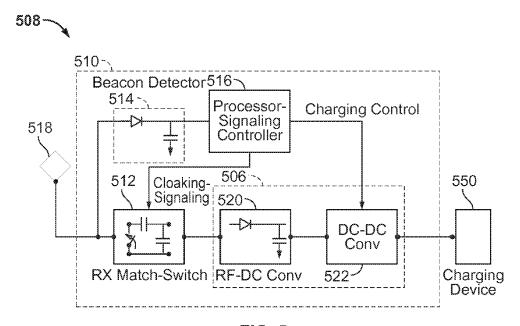
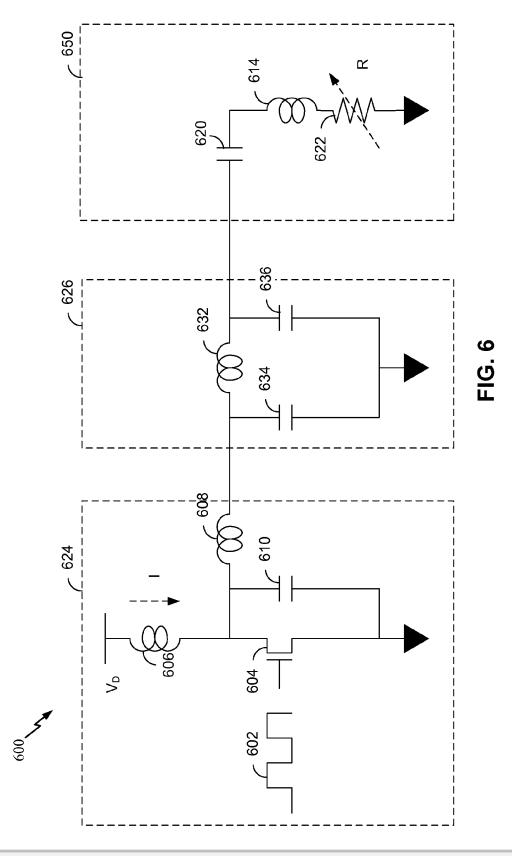
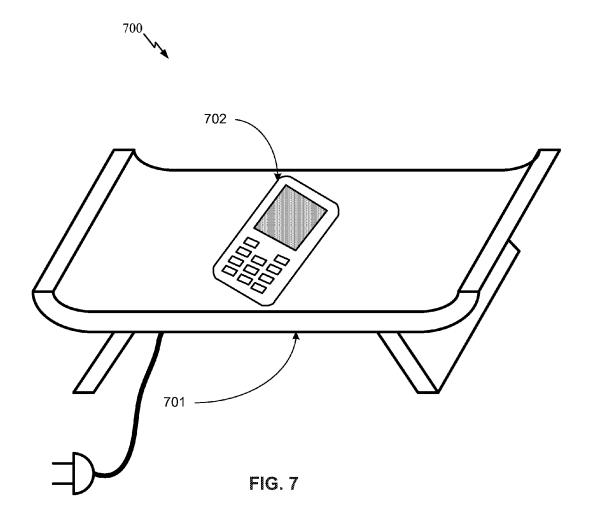


FIG. 5









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