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FINAL REPORT:

*WIRELESS TRANSMISSION MOBILE CHARGER CIRCUIT USING
INDUCTIVE COUPLING*

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ABSTRACT

WPT or wireless energy transmission is the transmission of electrical power from a power source to a consuming device without using conductors. It is a generic term that refers to a number of different power transmission technologies that use time-varying electromagnetic fields. Wireless transmission is useful to power electrical devices in cases where interconnecting wires are inconvenient, hazardous, or are not possible. In wireless power transfer, a transmitter device connected to a power source, such as the main power line, transmits power by electromagnetic fields across an intervening space to one or more receiver devices, where it is converted back to electric power and utilized.

For overall result, at transmission circuit section the DC current from the supply can be converted into AC current due to the circuit that act as “Royer oscillator”. Moreover, the power can be transmitted through the air without any physical connection or wire to the receiver. The AC current that been receive from the transmitter circuit can be converted to DC supply again in the receiver circuit. Furthermore, the voltage from the supply of 30V was regulated to 5V ad receiver circuit to the output.

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