WIRELESS POWER TRANSMISSION SYSTEM

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ELECTRODIS EST. – KUWAIT

INVENTION SUMMARY

Many inventions and researches have been made in the wireless electricity field after the tesla coil invention in 1891. The real challenge facing those inventors and researchers nowadays is to transmit electricity wirelessly from a distance without the need for any physical connections or in other words, convert electromagnetic waves into electricity that can be used in charging & activating electronic/electrical devices. The invention presented “Electrodis” is proven and patented to transmit wireless electricity from up to 3 meters.

Overall Summary

“Electrodis" invention is proven to transmit electricity wirelessly for long distances that can be useful for charging and activating electronic devices without any wired connections. This transmitter contains only one copper coil and can couple.

Key Innovative Features

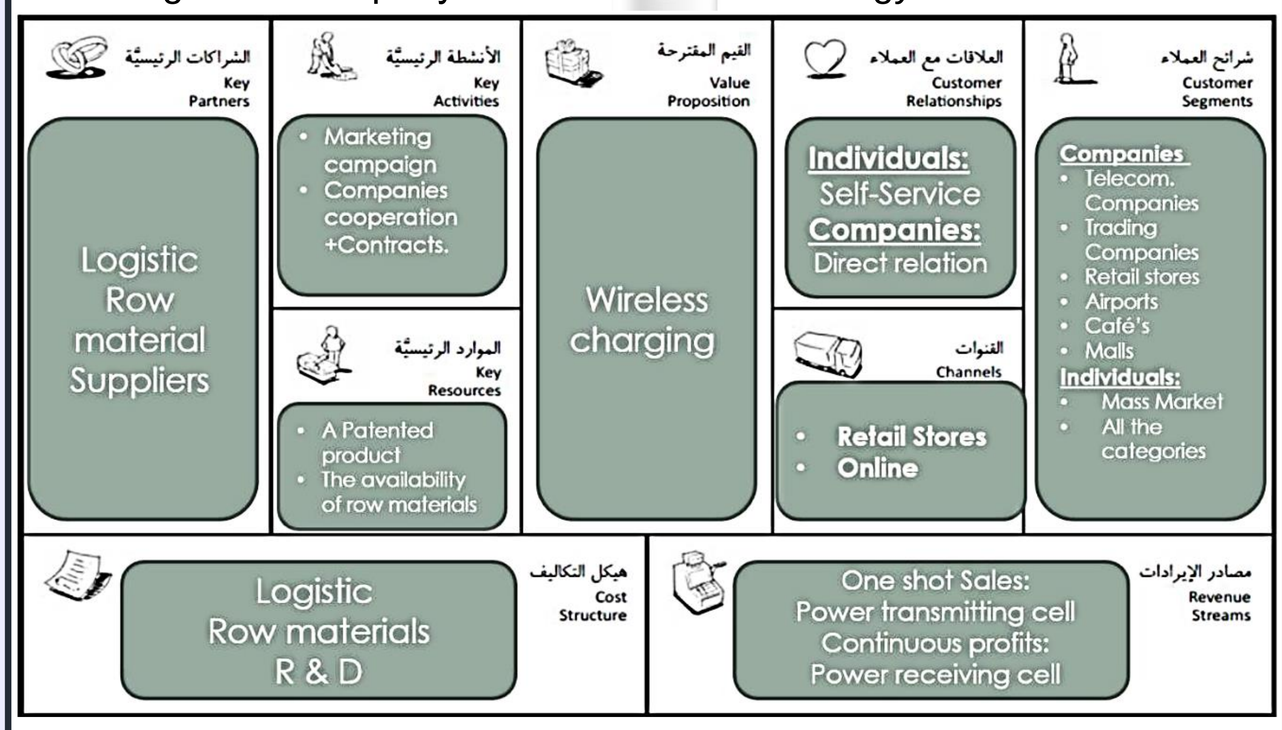
Electrodis” is a new engineering circuit and power transmission design that is mainly based on the coupling theory of electromagnetic fields between two inductors and transmitter and receiver circuits. The transmitter circuit converts the electrical power to electromagnetic strong and wide waves to couple from a distance of up to 3 meters with the receiver circuit that will convert it back to electrical power and start feeding the device which is connected to it whether it is a mobile phone or any other electronic device.

Effect & Contribution

This invention provides a new type of technology which is transmitting wireless electricity for a distance that reaches currently up to 3meters and can be increased. It will also minimize the use of messy wires that can cause a fault accident if they were attached. Also, it this invention will provide a new service for business owners to attract customers to their shops. Restaurants, and cafes by providing wireless charging technology for their mobile phones, Tablets, and laptops.

Commercialization & Future Potentials

Since 2016, “Electrodis Est.” manufactured electromagnetic cells. The following is the company’s business model strategy.



The Invention charges many electronic devices at once and is proven to transmit electricity to up to 3 meters and longer. This proof was theoretical and practical in the final products.

PRODUCT VISUALS

The following figure shows a mobile phone that is connected to the first receiver design receiving wireless electricity from the electromagnetic cell transmitter from a distance. This distance can be increased to higher than one meter and the mobile phone charges 1% every 2min.

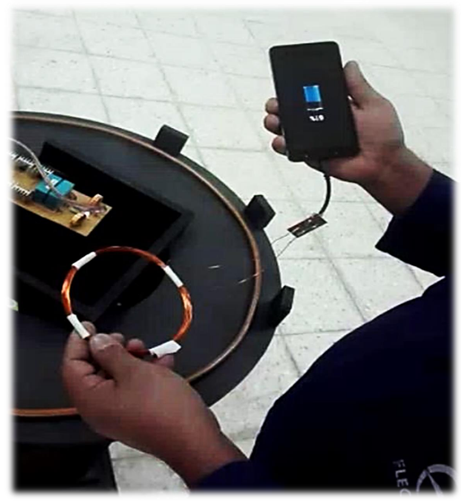


Fig (1): A mobile phone charging from a distance away from the transmitter

Fig (2): Wireless laptop/mobile device charging café table and its concept photo

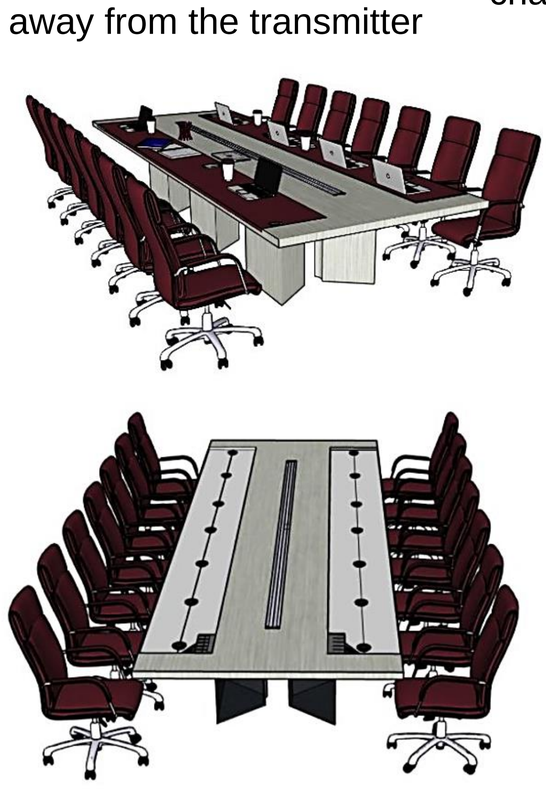


Fig (4): Wireless laptop/mobile charging meeting table

Fig (3): Wireless long distant charging Airport Seat

Fig (5): Electrodis Logo

ACHIEVEMENTS

- Patented: US10312742 B1
- Kuwait Award for Youth Creativity (Awarded by the Prince of Kuwait)
- Gold medal (Archimedes Inventions Expo-Moscow)
- Double Gold Innovator Award (GlobalWIIN)
- Gold Medal (iCAN-TORONTO)
- Best Women Inventor Award 2020 (iCAN-TORONTO)
- Canadian Special Award by TISIAS (iCAN-TORONTO)

INVENTION PRESENTED BY

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TISIAS

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