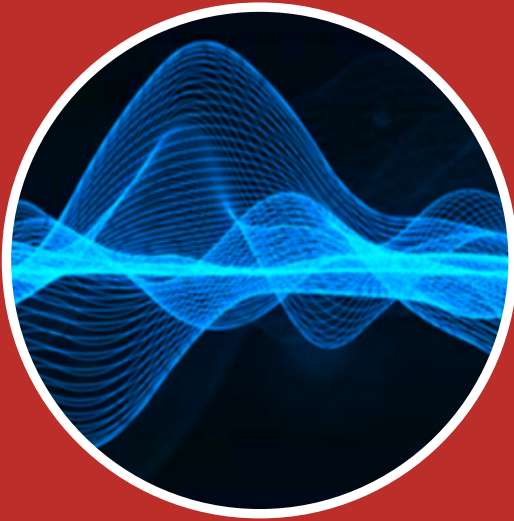


DEVICE FOR WIRELESS TRANSMISSION OF ELECTRICAL ENERGY

ALMA MATER STUDIORUM-UNIVERSITÀ DI BOLOGNA



Innovative device for wireless transmission of electrical energy, based on magnetic coupling between coils. Ideal for powering and recharging devices in automotive and industrial applications, it offers modular solutions with power control.

Protection: Italy, with the possibility to extend internationally

Inventors: Claudio Rossi, Leonardo Sandrolini, Mattia Simonazzi

INVENTION

The wireless electrical energy transmission device is designed to **ensure efficient and safe energy delivery through magnetic coupling between coils**. It utilizes magnetic coupling technology that maximizes energy efficiency and minimizes losses. Modular solutions allow the device to be adapted to various power requirements and applications. It features a power management system that regulates delivery based on the needs of the powered devices. Its versatility makes it suitable for automotive and industrial applications, enabling it to power and recharge a variety of devices.

ADVANTAGES

- **Greater convenience for users**, thanks to the elimination of cables for charging.
- **Reduction of installation and maintenance costs**, avoiding the complexity of traditional wiring.
- **Optimal power delivery, customized** according to specific needs.
- **Increased operational efficiency and improved sustainability**, with reduced resource consumption and minimized electronic waste.

APPLICATIONS

- **Automotive:** wireless charging of electric vehicles, eliminating the need for cables.
- **Industrial:** powering equipment and machinery without traditional wiring.
- **Consumer:** modular solutions for easy integration into various systems.

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