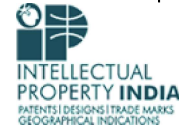


Home (<https://ipindia.gov.in/>) About Us (<https://ipindia.gov.in/Home/AboutUs>) Policy & Programs (<https://ipindia.gov.in/Home/policypages>)
 Achievements (<https://ipindia.gov.in/Home/achievementspage>) RTI (<https://ipindia.gov.in/Home/righttoinformation>)
 Sitemap (<https://ipindia.gov.in/Home/Sitemap>) Contact Us (<https://ipindia.gov.in/Home/contactus>)

[Skip to Main Content](#)



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/ind>)

Patent Search

Invention Title	Direct Mobile-to-Mobile Wireless Charging via Resonant Inductive Coupling
Publication Number	01/2026
Publication Date	02/01/2026
Publication Type	INA
Application Number	202541126308
Application Filing Date	13/12/2025
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRICAL
Classification (IPC)	H02J50/12, H02J7/00, H02J50/12, H02J7/00

Inventor

Name	Address	Country	Nat
Dr. B V V Satyanarayana	Professor, Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
Dr. G Prasanna Kumar	Professor, Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
A K Chaitanya Varma	Associate Professor, Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
Prudhvi Raj Budumuru	Assistant Professor, Department of ECE, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi
D Durga Prasad	Assistant Professor, Vishnu Institute of Technology, Vishnupur, Bhimavaram, West Godavari District, Andhra Pradesh 534202	India	Indi

Applicant

Name	Address	Country	Nation
Vishnu Institute of Technology	Sri Vishnu Education Society, Kowada Rd, Vishnupur, Kowada, Andhra Pradesh 534202	India	India

Abstract:

The present invention provides a compact wireless charging mechanism enabling direct power transfer between portable electronic devices using resonant inductive coupling. The donor device boosts its low-voltage battery output through a voltage booster and stabilization circuit before energizing a transmitter circuit and resonant coil that generate a high-frequency magnetic field. An acceptor device, equipped with a tuned receiver coil, harvests the induced energy, which is then rectified, smoothed, and regulated to provide a safe DC charging output. The system supports charging distances up to approximately 3.5 cm and operates efficiently across heterogeneous device types. The invention eliminates the need for cables or fixed charging stations, offering a portable, energy-efficient, and emergency-ready device-to-device wireless charging solution.

Complete Specification

Description:FIELD OF THE INVENTION

[001] The present invention relates generally to the domain of wireless power transfer (WPT) technologies and portable electronic device power systems. More specifically, the invention pertains to a compact and resonant inductive coupling-based mechanism that enables direct, device-to-device wireless charging between handheld or portable electronic devices without the use of physical connectors, charging pads, or fixed base stations. The invention further relates to the design and implementation of tuned resonant coils, voltage boosting and buffering circuits, frequency-controlled transmitter modules, and regulated receiver modules that collectively facilitate efficient, stable, and contactless power transmission across an air gap in the near-field region. The invention additionally concerns integration of such wireless charging systems in mobile devices, adapters, or auxiliary modules to provide safe, portable, and energy-efficient power sharing between heterogeneous electronic devices.

BACKGROUND OF THE INVENTION

[002] Wireless power transfer technologies have been widely explored in recent decades, particularly for consumer electronics, medical devices, and low-power embedded systems. Conventional inductive charging solutions typically rely on fixed charging pads, stationary docks, or cradle-based systems in which the transmitter coil is integrated into a dedicated charging station connected to a stable power source. Although these systems provide acceptable performance for commercial charging applications, they inherently lack portability, mobility, and device-to-device interoperability. Users remain dependent on external charging infrastructure, and the inability to share power...

[View Application Status](#)

Terms & conditions (<https://ipindia.gov.in/Home/Termsconditions>) Privacy Policy (<https://ipindia.gov.in/Home/Privacypolicy>)

Copyright (<https://ipindia.gov.in/Home/copyright>) Hyperlinking Policy (<https://ipindia.gov.in/Home/hyperlinkingpolicy>)

Accessibility (<https://ipindia.gov.in/Home/accessibility>) Contact Us (<https://ipindia.gov.in/Home/contactus>) Help (<https://ipindia.gov.in/Home/help>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019