

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511061954 A

(19) INDIA

(22) Date of filing of Application :28/06/2025

(43) Publication Date : 11/07/2025

(54) Title of the invention : A DEVICE FOR WIRELESS POWER TRANSFER BETWEEN PORTABLE COMPUTING UNITS

(51) International classification :H02J50/12, H02J50/90, H01F38/14, H02J7/00

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :

The present invention discloses a wireless power transfer device (100) designed for bi-directional energy exchange between portable computing units. It comprises a dual-mode power interface (101), resonant coil array (102), rectifier-inverter module (103), adaptive positioning sensor (104), microcontroller unit (105), thermal shielding layer (106), and secure communication module (107). The system enables efficient, real-time power transfer without physical connectors, ensuring mobility, safety, and seamless operation in diverse environments lacking traditional charging infrastructure.

No. of Pages : 15 No. of Claims : 5