

Claims:

1. A wireless power transmitting device 102 for transmitting power wirelessly to an electronic device 104 for charging, the wireless power transmitting device 102 comprising:

a smart communication device 146 configured to:

receive wireless power transmission instructions associated with a wireless power transmitter 164 from a server 106;

and

control wireless power transmission from the wireless power transmitter 164 to the electronic device 104 based on the wireless power transmission instructions;

and

the wireless power transmitter 164 configured to transmit power wirelessly to the electronic device 104, wherein the wireless power transmitter 164 transmits power wirelessly to the electronic device 104 for a pre-determined time interval based on the wireless power transmission instructions received by the smart communication device 146 responsive to a message from the electronic device 104, and resumes the transmission to the electronic device 104 based on the wireless power transmission instructions received by the smart communication device 146 responsive to an invocation of a wireless charging interface unit 144 in the electronic device 104.

2. The wireless power transmitting device 102 as claimed in claim 1, wherein the smart communication device 146 and the wireless power transmitter 164 are associated with a unique identifier, and wherein the smart communication device 146 and the wireless power transmitter 164 are attachable and detachable with respect to each other.

3. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitting device 102 is installed at least on a surface, under a surface, embedded on a surface, and is portable.
4. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitting device 102 is associated with a form factor.
5. The wireless power transmitting device 102 as claimed in claim 2, wherein the unique identifier is in the form of a unique identification number (UIN), and wherein the UIN is a six digit hex code or a quick response (QR) code or an alphanumeric code, or a bar code or a unique acoustic signal.
6. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitting device 102 interacts with the electronic device 104 for enabling wireless charging connection and data exchange.
7. The wireless power transmitting device 102 as claimed in claim 1, wherein the smart communication device 146 comprises a communication unit 130 configured to enable reception and transmission of the wireless power transmission instructions between a controller 128 in the smart communication device 146 and the server 106.
8. The wireless power transmitting device 102 as claimed in claim 7, wherein the communication unit 130 includes at least one of: an Internet of Things (IoT) device, a Wi-Fi, a Bluetooth, a Zigbee™, Near Field Communication (NFC), Narrow Band IoT and a device with wired connection.

9. The wireless power transmitting device 102 as claimed in claim 1, wherein the smart communication device 146 comprises a controller 128 configured to receive power from a power source 116 via a battery B 148 or directly from the battery B 148, and wherein the battery B 148 is an attachable, a detachable and a rechargeable battery.
10. The wireless power transmitting device 102 as claimed in claim 7, wherein the controller 128 is configured to control the wireless power transmitter 164 by performing an action on a switch 124 in the wireless power transmitter 164 by turning the switch 124 'ON' or 'OFF' based on the wireless power transmission instructions received from the server 106 via the communication unit 130.
11. The wireless power transmitting device 102 as claimed in claim 10, wherein the controller 128 is configured to maintain the wireless power transmitter 164 in a low power mode via the switch 124 which enables the wireless power transmitter 164 to sense placement or near presence of the electronic device 104 on or near the wireless power transmitter 164 respectively.
12. The wireless power transmitting device 102 as claimed in claim 7, wherein the communication unit 130 of the smart communication device 146 is configured to receive the wireless power transmission instructions from the server 106, responsive to the invocation of the wireless charging interface unit 144, after authentication of the UIN and a determination of the user as a registered user by the server 106, and wherein the instruction includes switching 'ON' a switch 124 of the wireless power transmitter 164 for wireless power transmission to the electronic device 104.
13. The wireless power transmitting device 102 as claimed in claim 7, wherein the communication unit 130 of the smart

communication device 146 is configured to receive the wireless power transmission instructions from the server 106, responsive to the message from the electronic device 104, after authentication of the UIN and a determination of the user as an unregistered user by the server 106, and wherein the instruction includes switching 'ON' a switch 124 of the wireless power transmitter 164 for the pre-determined time interval.

14. The wireless power transmitting device 102 as claimed in claim 7, the communication unit 130 of the smart communication device 146 is configured to receive the wireless power transmission instructions from the server 106 via the controller 128 in the smart communication device 146, the instruction including turning 'OFF' a switch 124 of the wireless power transmitter 164 after the pre-determined time interval.
15. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitter 164 is configured to transmit power wirelessly based on at least one of: a magnetic induction and a magnetic resonance via a primary coil 120 or a primary resonator 120.
16. The wireless power transmitting device 102 as claimed in claim 1, wherein the power transmitted by the wireless power transmitting device 102 is in one or more pre-defined power modes including a low power of 5W, a medium power in the range of between 5W-40W and a high power in the range of between 10kW-20kW.
17. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitter 164 comprises a display unit 126 configured to communicate via a controller 128 in the smart communication device 146 to display charging operations of the wireless power

transmitting device 102, the charging operation including working condition of the wireless power transmitting device 102 and busy condition of the wireless power transmitting device 102.

18. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitter 164 comprises a battery A 150, the battery A 150 is an attachable, a detachable and a rechargeable battery.
19. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitting device 102 includes a changeable panel for customizable display.
20. The wireless power transmitting device 102 as claimed in claim 1, wherein the wireless power transmitting device 102 is configured with a voice bot for receiving voice commands for operating the wireless power transmitting device 102 and performing functions associated with the voice bot provider.
21. An electronic device 104 for receiving power wirelessly from a wireless power transmitter 164 of a wireless power transmitting device 102 for charging, the electronic device 104 comprising:

a wireless charging interface unit 144 configured to communicate with a server 106 and the wireless power transmitter 164 for enabling reception of wireless power transmission from the wireless power transmitter 164; and

a receiver unit 134 configured to receive wireless power transmission from the wireless power transmitter 164 for charging the electronic device 164, wherein the wireless charging interface unit 144 is invocable for resuming reception of power wirelessly from the wireless power transmitter 164 if the receiver unit 134 receives

wireless power transmission for a pre-determined time-interval responsive to a message sent by the electronic device 104 to the server 106 via a predefined number for initiating wireless power transmission from the wireless power transmitter 164.

22. The electronic device 104 as claimed in claim 21, wherein the wireless charging interface unit 144 is a software module, a hardware module or a web application.
23. The electronic device 104 as claimed in claim 21, wherein the wireless charging interface unit 144 provides one or more options associated with the wireless power transmitting device 102 including locations of the wireless power transmitting device 102, navigation capability to the locations of the wireless power transmitting device 102, strength of charging provided by the wireless power transmitting device 102 at the locations of the wireless power transmitting device 102, charging voltage output value of the wireless power transmitting device 102 at the locations of the wireless power transmitting device 102 and power output value of the wireless power transmitting device 102 at the locations of the wireless power transmitting device 102.
24. The electronic device 104 as claimed in claim 21, wherein the wireless charging interface unit 144 is configured to communicate with the server 106 and the wireless power transmitting device 102 via a communication module 142.
25. The electronic device 104 as claimed in claim 21, wherein the electronic device 104 comprises a secondary coil 132 or a secondary resonator 132 configured to receive power wirelessly from the wireless power transmitter 164, and wherein the received power is communicated to the receiver unit 134 of the electronic device 104 for converting the

received power into a voltage required by the electronic device 104 for charging a battery 138 of the electronic device 104.

26. The electronic device 104 as claimed in claim 21, wherein the electronic device 104 comprises a controller 136 configured to control the wireless charging interface unit 144 of the electronic device 104 based on wireless power transmission instructions received from the server 106.
27. The electronic device 104 as claimed in claim 21, wherein the electronic device 104 is placed on the wireless power transmitter 164 of the wireless power transmitting device 102 or held at a distance in the range of between 15mm to 40mm from the wireless power transmitter 164 for wireless power charging.
28. The electronic device 104 as claimed in claim 21, wherein the wireless charging interface unit 144 communicates charging requirements of the electronic device 104 to the server 106, the charging requirements including voltage required for charging, power required for charging, battery 138 level of the electronic device 104 and time required for charging.
29. The electronic device 104 as claimed in claim 21, wherein the electronic device 104 sends the message to the server 106 over a communication channel 110 based on the pre-defined number, wherein the message includes a first message of a unique identification number (UIN) of the wireless power transmitting device 102 and user details.
30. The electronic device 104 as claimed in claim 29, wherein the electronic device 104 receives a second message from the server 106, subsequent to sending the first message, the second message including a switch 'ON' status of the

wireless power transmitter 164 associated with the authenticated UIN based on a determination of a registered user status by the server 106.

31. The electronic device 104 as claimed in claim 29, wherein the electronic device 104 receives a third message from the server 106, subsequent to sending the first message, the third message including a switch 'ON' status of the wireless power transmitter 164 associated with the authenticated UIN for the pre-determined time interval and a universal resource locator (URL) link to configure the wireless charging interface unit 144 on the electronic device 104 based on a determination of an unregistered user status by the server 106.

32. The electronic device 104 as claimed in claim 31, wherein the electronic device 104 receives a fourth message after the end of the pre-determined time interval of charging, the fourth message including switch 'OFF' status of the wireless power transmitter (164) and the URL link to configure the wireless charging interface unit (144) on the electronic device (104) to resume charging by invoking the wireless charging interface unit 144.

33. A method for wirelessly charging an electronic device 104, the method comprising:

transmitting, by the wireless power transmitting device 102, power wirelessly to the electronic device 104 for a pre-determined time interval based on wireless power transmission instructions received from a server 106 responsive to a message transmitted by the electronic device 104 to the server 106; and

resuming, by the wireless power transmitting device 102, the wireless power transmission to the electronic device 104 based on the wireless power transmission

instructions received from the server 106 responsive to an invocation of a wireless charging interface unit 144 in the electronic device 104.

34. The method as claimed in claim 33, wherein the message transmitted by the electronic device 104 includes a first message transmitted to the server 106 via a pre-defined number, the first message including a unique identifier associated with a wireless power transmitting device 102.
35. The method as claimed in claim 34, wherein the method comprises receiving by the electronic device 104 a second message from the server 106, subsequent to sending the first message, the second message including a switch 'ON' status of the wireless power transmitter 164 associated with an authenticated UIN based on a determination of a registered user status by the server 106.
36. The method as claimed in claim 34, wherein the method comprises receiving by the electronic device 104 a third message from the server 106, subsequent to sending the first message, the third message including a switch 'ON' status of the wireless power transmitter 164 associated with the authenticated UIN for the pre-determined time interval and a universal resource locator (URL) link to configure the wireless charging interface unit 144 on the electronic device 104 based on a determination of an unregistered user status by the server 106.
37. The method as claimed in claim 36, wherein the method includes receiving by the electronic device 104 a fourth message, after the end of the pre-determined time interval of charging, the fourth message including switch 'OFF' status of the wireless power transmitter 164 and the URL link to configure the wireless charging interface unit 144

on the electronic device 104 to resume charging by invoking the wireless charging interface unit 144.

38. The method as claimed in claim 33, wherein the method comprises receiving, by the wireless power transmitting device 102, the wireless power transmission instructions responsive to the invocation of the wireless charging interface unit 144, after authentication of a UIN and a determination of the user as a registered user by the server 106, and wherein the instruction includes switching 'ON' a switch 124 of the wireless power transmitter 164 for wireless power transmission to the electronic device 104.

39. The method as claimed in claim 33, wherein the method comprises receiving, by the wireless power transmitting device 102, the wireless power transmission instructions responsive to the message from the electronic device 104, after authentication of the UIN and a determination of the user as an unregistered user by the server 106, and wherein the instruction includes switching 'ON' a switch 124 of the wireless power transmitter 164 for the pre-determined time interval.

40. The method as claimed in claim 33, wherein the method comprises receiving, by the wireless power transmitting device 102, wireless power transmission instructions including turning 'OFF' a switch 124 of the wireless power transmitter 164 from the server 106 after the pre-determined time interval.