(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
25 September 2025 (25.09.2025)

WIPO | PCT

(10) International Publication Number
WO 2025/199291 A1

(51) International Patent Classification:
H02J 7/00 (2006.01) *H02J 50/80* (2016.01)
H02J 50/12 (2016.01)

(21) International Application Number:
PCT/US2025/020660

(22) International Filing Date:
20 March 2025 (20.03.2025)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202411022135 22 March 2024 (22.03.2024) IN
202411058363 01 August 2024 (01.08.2024) IN

(71) Applicant: **DOLBY INTELLECTUAL PROPERTY LICENSING, LLC** [US/US]; 1275 Market Street, San Francisco, California 94103 (US).

(72) Inventors: **GANESH, Jayanti**; c/o Dolby Laboratories, Inc., 1275 Market Street, San Francisco, California 94103 (US). **KANAKASABAI, Viswanathan**; c/o Dolby Laboratories, Inc., 1275 Market Street, San Francisco, California 94103 (US). **TATIKONDA, Subbarao**; c/o Dolby Laboratories, Inc., 1275 Market Street, San Francisco, California 94103 (US).

(74) Agent: **GURFINKEL, Daniel**; 230 W Monroe St., Ste. 2100, Chicago, Illinois 60606 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH,

WO 2025/199291 A1

(54) **Title:** POWER SOURCE VOLTAGE CONTROL FOR WIRELESS CHARGING

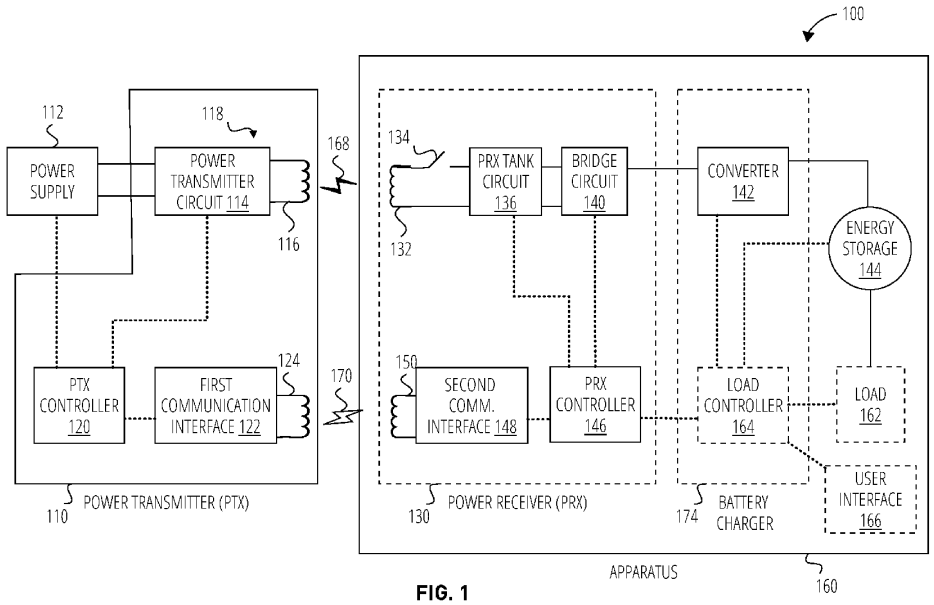


FIG. 1

(57) **Abstract:** This disclosure provides systems, methods and apparatuses for power control in a wireless power apparatus. Some techniques include communication between a Power Transmitter and the power supply to adjust the value of the voltage based on the power request received during negotiation. Additionally, or alternatively, the power supply voltage adjustment can be based on the power request received by the transmitter. A Power Transmitter can communicate a request for a voltage re-adjustment based on the transmitted/received power during power transfer. In some aspects, the disclosed techniques enable standardization of the supply voltage by a Power Transmitter based on a power request received from a Power Receiver.

[Continued on next page]

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UY, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

— *with international search report (Art. 21(3))*