



(51) International Patent Classification:

H02J 17/00 (2006.01) H01Q 1/38 (2006.01)
H03H 11/26 (2006.01) H03J 7/00 (2006.01)
H03J 7/02 (2006.01) H03F 3/00 (2006.01)
B60L 9/00 (2006.01) H03F 3/26 (2006.01)
A47B 13/00 (2006.01) H05K 9/00 (2006.01)
H01F 27/28 (2006.01)

(21) International Application Number:

PCT/CA2012/000845

(22) International Filing Date:

7 September 2012 (07.09.2012)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/532,092 7 September 2011 (07.09.2011) US

(71) Applicant (for all designated States except US): **SOLACE POWER INC.** [CA/CA]; Suite 3003, Genesis Centre, Bruneau Centre, MUN, St. John's, NL A1C 5S7 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **POLU, Nagesh** [CA/CA]; 3 O'Dea Place, St. John's, NL A1C 3C6 (CA). **ALAM, Mohammed Jahangir** [CA/CA]; 18 Oxen Pond Road, St. John's, NL A1B 3J3 (CA). **ISLAM, Sheikh Mominul** [BD/CA]; 410 Elizabeth Avenue, St. John's, NL A1B 1V3 (CA). **SOLTANI, Nima** [CA/CA]; Apt. 1405, 10 Parkway Forest Drive, North York, Ontario M2J 1M2 (CA).

(74) Agents: **RUSTON, David, A.** et al.; Sim & McBurney, 330 University Avenue 6th Floor, Toronto, Ontario M5G 1R7 (CA).

(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, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, 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))

Published:

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

[Continued on next page]

(54) Title: WIRELESS ELECTRIC FIELD POWER TRANSMISSION SYSTEM AND METHOD

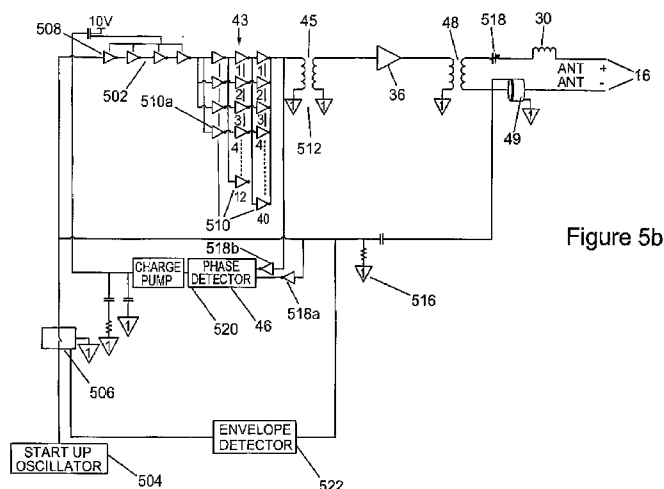


Figure 5b

(57) Abstract: A method and a system for wirelessly transferring power by resonating a transmitter antenna with at least two conductors and a transmitter coil at a start-up frequency; tuning the transmitter antenna and the transmitter coil to their resonant frequency; generating an electric field within a volume defined by the at least two conductors; placing a receiver with a receiver antenna comprising two plates in the volume; accumulating a potential difference on the two plates; resonating the receiver antenna at the resonant frequency; and gathering power from the receiver antenna.



-
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*