



(51) International Patent Classification:
H02J 1/00 (2006.01)

(21) International Application Number:
PCT/IL2011/000601

(22) International Filing Date:
26 July 2011 (26.07.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/367,456 26 July 2010 (26.07.2010) US

(71) Applicant (for all designated States except US): **NEY LI PTE LTD** [SG/SG]; 20 Cecil Street 14-01, Equity Plaza, 049705 Singapore (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **OFEK, Eran** [IL/IL]; 14/4 Shivte Israel St., 71726 Modiin (IL).

(74) Agent: **DR. EYAL BRESSLER LTD.**; 11 Tuval St., Laz Rom House, 52522 Ramat Gan (IL).

(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, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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))

— 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))

(54) Title: AC/DC LOW VOLTAGE POWER SUPPLY DEVICE AND METHOD OF STEPPING DOWN AC/DC VOLTAGE

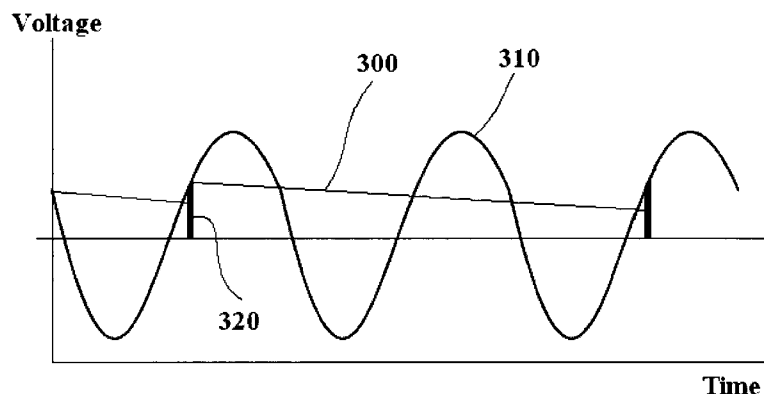


Fig. 6

(57) Abstract: An alternating current/direct current (AC/DC) low voltage power supply device includes a stepping down unit for stepping down voltage provided by an electric power source, wherein the power source provides a voltage up to but not exceeding a predetermined value. The stepping down unit includes a switch for connecting or disconnecting an energy storage device or a load device to an AC electrical source.