



(43) International Publication Date
14 August 2008 (14.08.2008)

(10) International Publication Number
WO 2008/097591 A3

- (51) **International Patent Classification:**
H02J 3/00 (2006.01) **H02J 3/06** (2006.01)

(21) **International Application Number:**
PCT/US2008/001592

(22) **International Filing Date:** 5 February 2008 (05.02.2008)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**

60/888,486	6 February 2007 (06.02.2007)	US
11/774,566	7 July 2007 (07.07.2007)	US
11/774,565	7 July 2007 (07.07.2007)	US
11/774,564	7 July 2007 (07.07.2007)	US
11/774,563	7 July 2007 (07.07.2007)	US
11/774,562	7 July 2007 (07.07.2007)	US
11/849,242	31 August 2007 (31.08.2007)	US

(71) **Applicant (for all designated States except US):** **XSLNT ENERGY TECHNOLOGIES, LLC** [US/US]; Suite 101, 16795 Lark Avenue, Los Gatos, CA 95032 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants (for US only):** **BESSER, David, A.** [US/US]; 59 Trinity Circle, Livermore, CA 84551 (US).

MATAN, Stefan [US/US]; 487 Lea Court, Novato, CA 94945 (US). **BULLEN, Malvin, J.** [US/US]; 21915 Bear Creek Road, Los Gatos, CA 21915 (US).

(74) **Agents:** **VINCENT, Lester, J.** et al.; Blakely, Sokoloff, Taylor & Zafman LLP, 1279 Oakmead Parkway, Sunnyvale, CA 94085-4040 (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, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL,

[Continued on next page]

- (54) Title:** MULTI-SOURCE, MULTI-LOAD SYSTEMS WITH A POWER EXTRACTOR

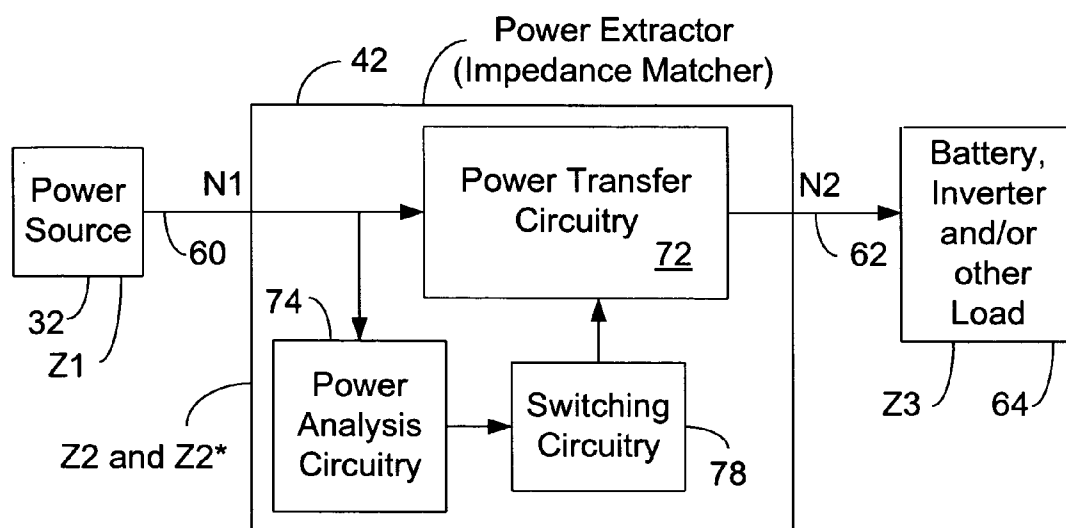


FIG. 3

- (S7) Abstract:** Apparatuses and systems enable power transfer from one or more energy sources to one or more loads. The input power from the energy sources may be unregulated, and the output power to the loads is managed. The power transfer is based on a dynamic implementation of Jacobi's Law (also known as the Maximum Power Theorem). In some embodiments, the energy sources are selectively coupled and decoupled from the power transfer circuitry. In some embodiments, the loads are selectively coupled and decoupled from the power transfer circuitry. Power transfer to the loads is dynamically controlled.



NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG,
CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments*

Published:

— *with international search report*

(88) Date of publication of the international search report:

2 October 2008