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

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
9 February 2012 (09.02.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/019062 A8

(51) International Patent Classification:
H01M 2/02 (2006.01) *H01M 10/44* (2006.01)
H01M 2/34 (2006.01) *H01M 10/50* (2006.01)
H01M 10/04 (2006.01) *H02J 7/00* (2006.01)

(21) International Application Number:
PCT/US2011/046674

(22) International Filing Date:
4 August 2011 (04.08.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/400,962 4 August 2010 (04.08.2010) US

(71) Applicant *(for all designated States except US)*: **FRONT EDGE TECHNOLOGY, INC.** [US/US]; 13455 Brooks Drive, Baldwin Park, California 91706 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **NIEH, Kai Wei** [US/US]; 640 Ranchito Road, Monrovia, California 91016 (US). **SHIH, Tung-Hsiu** [US/US]; 19213 Roseton Avenue, Ceritos, California 90703 (US).

(74) Agent: **JANAH, Ashok**; Janah & Associates, P.C., 650 Delancey Street, Suite 106, San Francisco, California 94107 (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, 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, QA, 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).

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

(88) Date of publication of the international search report:
12 April 2012

(48) Date of publication of this corrected version:
20 September 2012

(15) Information about Correction:
see Notice of 20 September 2012

(54) Title: RECHARGEABLE BATTERY WITH CURRENT LIMITER

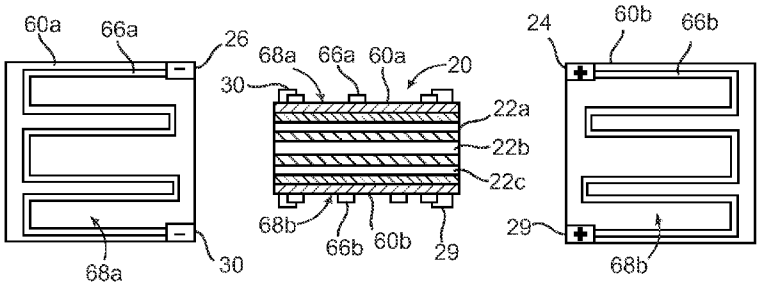


FIG. 5

(57) Abstract: A rechargeable battery comprises a battery cell comprising a plurality of battery component films on a substrate, the battery component films including at least a pair of electrodes about an electrolyte. A current limiter is electrically coupled to the battery cell to limit the current flowing through the battery cell when (i) the current flowing through the battery cell exceeds a pre-defined current, (ii) the temperature of the battery cell exceeds a predefined temperature, or (iii) both.

WO 2012/019062 A8