

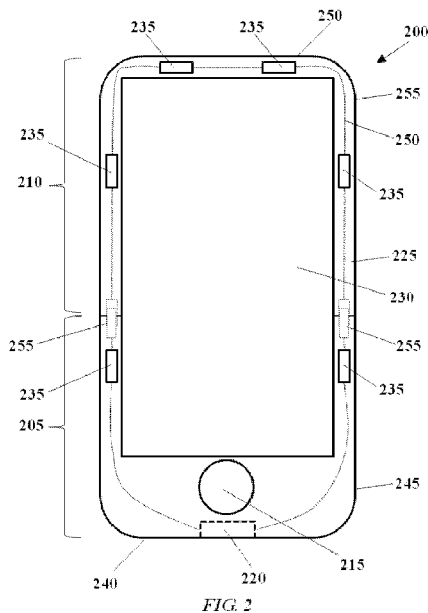


- (51) International Patent Classification:
H04B 1/38 (2006.01) *G03B 15/03* (2006.01)
A45C 11/00 (2006.01)
- (21) International Application Number:
PCT/US2012/023180
- (22) International Filing Date:
30 January 2012 (30.01.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
61/437,572 28 January 2011 (28.01.2011) US
61/501,100 24 June 2011 (24.06.2011) US
- (71) Applicant (for all designated States except US): **WINDY PLACE, INC.** [US/US]; 4111 E Madison Street, #268, Seattle, WA 98118 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GANTZ, Cindy** [US/US]; 4111 E Madison St. #268, Seattle, WA 98112 (US). **WALLACE, Jackie** [US/US]; 51 Hiliritas Ave., San Francisco, CA 94131 (US). **TRAPIER, Jean** [US/US]; 1349 Minna Street, San Francisco, CA 94103 (US).

- (74) Agents: **ALEMOZAFAR, Ali** et al.; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (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, 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, 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).

[Continued on next page]

(54) Title: LIGHTING AND POWER DEVICES AND MODULES



(57) Abstract: Electronic device cases and lighting and power devices and modules are described. A case for a portable electronic device may include a rim portion defining an opening for a display of the portable electronic device and one or more light sources adjacent to the rim portion. A lighting device may include one or more light sources for illuminating a user's face during use of a camera of a portable electronic device, and a power member for providing power to the one or more light sources. A lighting module may include a plurality of lighting devices. A power module having a battery may be configured to provide power to a portable electronic device.

WO 2012/103554 A3

Published:

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

- *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))*

8 November 2012

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/023180**A. CLASSIFICATION OF SUBJECT MATTER****H04B 1/38(2006.01)i, A45C 11/00(2006.01)i, G03B 15/03(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H04B 1/38; H04N 5/238; G03B 15/05; G03B 15/03; H04B 1/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: LED, camera, portable device

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	KR 20-0303644 Y1 (SUL YANG) 14 February 2003 See abstract, figures 1-3 and pages 1, 2.	1,2,4,5,37,39 3
Y	KR 10-2007-0022903 A (MTEK VISION CO., LTD.) 28 February 2007 See abstract, figures 1, 2 and pages 2-5.	3,14,38,40
X Y	JP 2008-286935 A (FTC:KK) 27 November 2008 See abstract, figures 1-6 and paragraphs 2-36.	6,7-13,15,32-36,37 ,39,41 14,16-22,38,40
Y	KR 10-2003-0054947 A (NEXG TELECOM CO., LTD.) 02 July 2003 See abstract, figures 1-5 and pages 2, 3.	16-27,38,40
X Y	KR 20-2009-0001494 U (DANI CO., LTD. et al.) 13 February 2009 See abstract, figures 1-4 and pages 4, 5.	28-31 20,21,23-27,38,40

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

25 SEPTEMBER 2012 (25.09.2012)

Date of mailing of the international search report

25 SEPTEMBER 2012 (25.09.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Kim, Do Weon

Telephone No. 82-42-481-5769



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/023180

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 20-0303644 Y1	14.02.2003	None	
KR 10-2007-0022903 A	28.02.2007	None	
JP 2008-286935 A	27.11.2008	None	
KR 10-2003-0054947 A	02.07.2003	None	
KR 20-2009-0001494 U	13.02.2009	None	