



(43) International Publication Date  
25 September 2014 (25.09.2014)

- (51) **International Patent Classification:**  
*G06F 1/16* (2006.01)
- (21) **International Application Number:**  
PCT/US2014/031353
- (22) **International Filing Date:**  
20 March 2014 (20.03.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
61/803,702 20 March 2013 (20.03.2013) US
- (72) **Inventor; and**
- (71) **Applicant : ROSS, Mark** [US/US]; 14 Progress Drive, Shelton, CT 06484 (US).
- (74) **Agent: ZINGERMAN, Scott, R.;** Fellers, Snider, Blankenship, Bailey & Tippens, P.C., 321 South Boston, Suite 800, Tulsa, OK 74103-33 18 (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, 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, IR, IS, JP, KE, KG, 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, SA, 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, KM, ML, MR, NE, SN, TD, TG).

**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))

- (88) **Date of publication of the international search report:**  
13 November 2014

(54) **Title:** WORKSTATION POWER SYSTEM

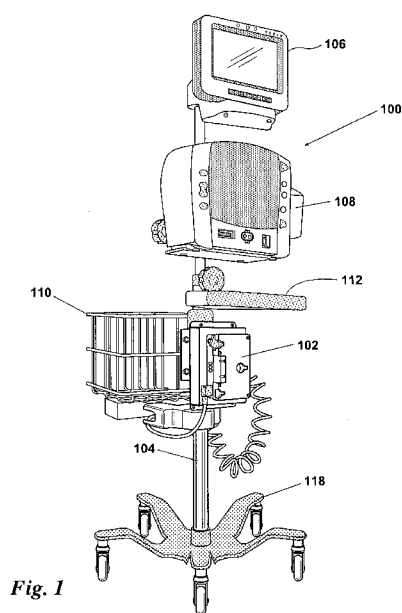


Fig. 1

(57) **Abstract:** A power system for the electronic devices on a mobile workstation. The power system preferably includes: an enclosure having a mount for a removable battery; circuitry housed in the enclosure for providing electrical power at two or more output voltages for electronic devices on the workstation and for deactivating output power when the battery charge falls below a predetermined level. The power system may also include charging circuitry for recharging the removable battery in-place.



# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/31353

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC(8) - G06F 1/16 (2014.01)**

**USPC - 361/679.02**

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)

USPC: 361/679.02; IPC(8): G06F 1/16 (2014.01 )

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

USPC: 361/728; 429/163; 713/300; 307/48,65,66 (see terms below)

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

PatBase, PubWEST(PGPB,USPT,USOC,EPAB,JPAB), Google Scholar

terms: Wong-Baker, battery, charge, workstation, power, medical, indicate, condition, health, status, circuit, PCB, output, outlet, socket, swap, caregiving, energy, invert, strength, state, monitor, measure, display, housing, enclosure, mount, recharge, charge

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category*     | Citation of document, with indication, where appropriate, of the relevant passages                                                                   | Relevant to claim No.           |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| X<br>---<br>Y | US 2010/0264738 A1 (Murtha et al.) 21 October 2010 (21.10.2010), entire document, especially fig. 1-3, 6, para [0003], [0027]-[0032], [0035]-[0040]. | 12-13, 15<br>-----<br>1-1 1, 14 |
| Y             | US 2006/0164036 A1 (Ulla et al.) 27 July 2006 (27.07.2006), entire document, especially fig. 2-3, para [0020]-[0022].                                | 1-1 1                           |
| Y             | US 2009/0281594 A1 (King et al.) 12 November 2009 (12.11.2009), entire document, especially fig. 1, 4, para [0146].                                  | 11, 14                          |
| A             | US 2005/0158616 A1 (Heatley) 21 July 2005 (21.07.2005), entire document.                                                                             | 1-15                            |
| A             | US 2005/0038614 A1 (Botts et al.) 17 February 2005 (17.02.2005), entire document.                                                                    | 1-15                            |
| A             | US 5,872,984 A (Berglund et al.) 16 February 1999 (16.02.1999), entire document.                                                                     | 1-15                            |
| A             | US 7,782,607 B2 (Harbin et al.) 24 August 2010 (24.08.2010), entire document                                                                         | 1-15                            |

☐ Further documents are listed in the continuation of Box C. ☐

\* 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 another 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

28 July 2014 (28.07.2014)

Date of mailing of the international search report

**05 SEP 2014**

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774