(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 2 May 2008 (02.05.2008)

(10) International Publication Number WO 2008/051738 A3

(51) International Patent Classification: *G06F 1116* (2006.01)

(21) International Application Number:

PCT/US2007/081253

(22) International Filing Date: 12 October 2007 (12.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/586,212 24 October 2006 (24. 10.2006) US

(71) Applicant (for all designated States except US): ZONARE MEDICAL SYSTEMS, INC. [US/US]; 420 Bernardo Avenue, Mountain View, California 94043 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): STEINS, Robert, W. [US/US]; 3264 Saint Ignatius Place, Santa Clara, California 95051 (US). MCLAUGHLIN, Glen, W. [US/US]; 14016 Camino Barco, Saratoga, California 95070 (US).
- (74) Agents: SLONE, David, N. et al; Two Embarcadero Center, 8th Floor, San Francisco, California 941 11-3834 (US).
- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

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, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### **Declaration under Rule** 4.17:

 as to applicant's entitlement to applyfor and be granted a patent (Rule 4.17(U))

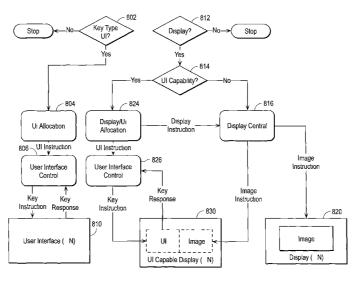
### **Published:**

with international search report

 $\textbf{(88)} \ \ \textbf{Date of publication of the international search report:}$ 

12 September 2008

(54) Title: CONTROL OF USER INTERFACES AND DISPLAYS FOR PORTABLE ULTRASOUND UNIT AND DOCKING STATION



(57) Abstract: Embodiments of the present invention provide ways for controlling a plurality of visual displays and a plurality of user interfaces for a portable ultrasound device which can be mounted to different docking stations or carts to provide and enhance different functionalities and features. In one embodiment, a portable ultrasound device comprises a portable housing; a display control module configured to control a plurality of visual displays, at least one of the visual displays being selectively configurable to provide a user interface display on the visual display for user interface control, at least one of the visual displays being selectively configurable to view an ultrasound image; and a plurality of user interfaces, at least one of the plurality of user interfaces being a separate user interface which is not integrally formed with the portable housing.



### INTERNATIONAL SEARCH REPORT

International application No PCT/US07/81253

# CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 1/16 (2008.01 )

USPC - 361/681

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

# FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A61B 8/00, 8/08, 8/14, G06F 1/16, 3/048 (2008 01)

USPC - 361/679, 681, 600/437, 443

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

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

## DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X - Y	US 6,980,419 B2 (SMITH et al) 27 December 2005 (27 12 2005) entire document	1-3, 5-9, 11-15, 18, 25-26, 28-30
		4, 10, 16-17, 19-24, 27
Y	US 5,161 ,535 A (SHORT et al) 10 November 1992 (10 11 1992) entire document	4, 16, 24, 27
<b>Y</b>	US 6,069,593 A (LEBBY et al) 30 May 2000 (30 05 2000) entire document	10, 17, 19-23, 24
	·	

# I Further documents are listed in the continuation of Box C

- Special categories of cued documents
- document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on orafter the international filing  $\,$  date
- document which may throw doubts on priority claum(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other

document published  $p\pi\,\sigma\,r\,to$  the international filing date but later than the priority date claimed

Date of the actual completion of the international search

23 January 2008

Name and mailing address of the ISAAJS Mail Stop PCT, Attn ISA/US, Commissioner for Patents PO Box 1450, Alexandria, Virginia 22313-1450 Facsimile No 571-273-3201

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

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

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 mailing of the international search report

**0**3 APR 2008

Authorized offKer

esk 571-272-4300 PCT OSP 571-272-7774

Form PCT/ISA/2 10 (second sheet) (April 2007)