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Declarations under Rule 4.17:

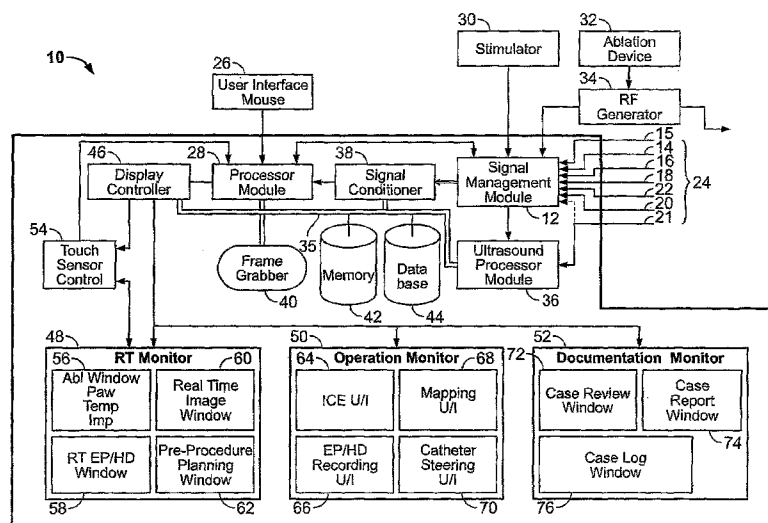
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report

[Continued on next page]

(54) Title: INTEGRATED PHYSIOLOGY AND IMAGING WORKSTATION



(57) Abstract: A physiology workstation is provided that comprises a communications interface conveying physiology signals derived from a subject and ultrasound data representative of a region of interest of the subject. The ultrasound data is obtained by an ultrasound device in real-time during a procedure carried out on the subject. An physiology processing unit receives and processes the physiology signals. An ultrasound processing unit receives and processes the ultrasound data to generate ultrasound images. The physiology processing unit combines the physiology signals with the ultrasound images from the ultrasound processing unit. A display unit displaying the physiology signals and the ultrasound images. The physiology signals and ultrasound signals are presented jointly to a user in real-time during the procedure being carried out on the subject.

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

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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

5 April 2007

INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F19/00

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)
G06F G06K A61B

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 practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/163045 A1 (GATZKE RONALD D [US]) 28 August 2003 (2003-08-28) abstract figures 1,3 page 2, paragraph 25 - page 3, paragraph 26 page 3, paragraphs 31,33 claims 16,24-26	1-23
X	page 2, paragraph 23 page 3, paragraph 26 claims 16,18,22,24 ----- -/-	24-28

☒ 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 document 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

22 January 2007

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02/02/2007

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/026502

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 438 405 B1 (MOONEY MATTHEW [US] ET AL) 20 August 2002 (2002-08-20) abstract; figures 1,2,4 column 3, line 60 - column 4, line 6 column 5, line 23 - column 6, line 13 column 8, line 26 - line 35 claims 1,2 -----	1-23
X	US 5 619 995 A (LOBODZINSKI SUAVE M [US]) 15 April 1997 (1997-04-15) abstract figures 1,2,5,6,9 column 6, line 5 - line 33 column 7, line 25 - line 36 column 8, line 63 - column 9, line 12 column 9, line 49 - column 10, line 12 column 11, line 51 - line 59 column 13 claims 2-6 -----	1-23
X	column 6, line 29 - line 57 column 8, line 63 - column 9, line 12 column 11, line 51 - line 59 claims 2,11 -----	24-28
X	US 6 603 494 B1 (BANKS SETH RICHARD [US] ET AL) 5 August 2003 (2003-08-05) column 7, line 53 - column 8, line 2 column 8, line 16 - line 44 column 9, line 24 - line 32 column 18, line 61 - line 65 column 19, line 39 - column 20, line 4 column 20, line 15 - line 20 column 24, line 16 - line 22 claims 1,4 figures 1,11,12 -----	24-28
A	US 2003/045796 A1 (FRIEDMAN ZVI M [IL]) 6 March 2003 (2003-03-06) figures 1-3 page 1, paragraph 7 page 2, paragraph 15 - paragraph 19 -----	1-23
A	US 2004/077952 A1 (RAFTER PATRICK G [US] ET AL) 22 April 2004 (2004-04-22) figures 1,2 page 3, paragraph 25 - paragraph 26 page 4, paragraphs 38,39,44 page 5, paragraph 51 - page 6, paragraph 55 page 6, paragraph 59 claim 1 -----	1-23
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/026502

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 2004/225219 A1 (DEMERS DOUGLAS ARMAND [US]) 11 November 2004 (2004-11-11) page 2, column 1, paragraph 21 - paragraph 22 page 2, column 2, paragraph 27 page 3, column 1, paragraph 31 - paragraph 32 claim 11 figures 1,2,4</p>	24-28
A	<p>WO 93/18710 A (HOMECARE DIAGNOSTIC SERVICES [US]) 30 September 1993 (1993-09-30) abstract page 2, line 20 - line 29 page 3, line 11 - line 16 page 4, line 30 - page 5, line 3 page 12, line 30 - page 13, line 2 page 19, line 15 - line 20 claims 1,3,11,15,21 figures 1,2</p>	24-28

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/026502

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23

A physiology workstation for displaying physiological signals and ultrasound images jointly in real-time.

2. claims: 24-28

A physiology system for remotely controlling an ultrasound system.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/026502

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