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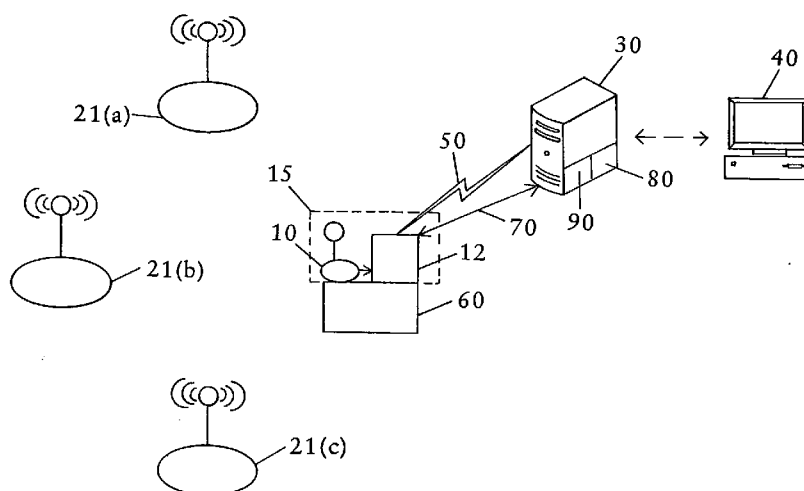
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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR DETERMINING LOCATIONS OF MEDICAL DEVICES

FIG. 1



(57) Abstract: The location of a medical device (60) is determined by receiving one or more signals at the medical device transmitted by one or more beacons (21), respectively, at known locations. The one or more signals received at the medical device are sent from the medical device to a processor (90), which determines the location of the medical device based on the received one or more signals. One of the beacons may be a portable patient beacon (21d), the location of which is determined when its signal is received by a medical device, the location of which was previously determined.



- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))* — *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))*

Published:

- *with international search report (Art. 21(3))*

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

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/081640

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61B5/06 A61B5/00 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)

A61B G06F

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	WO 02/44865 A (DIGITAL ANGEL CORP [US]; ZHOU PETER YONG [US]; PANG DEXING [US]; ALBAN) 6 June 2002 (2002-06-06)	1,2,4,6, 8,11,12, 14,16, 18,22
Y	paragraphs [0007], [0019], [0029], [0058], [0062]	3,9,13, 19
Y	WO 2006/105269 A (STRYKER CANADIAN MAN INC [CA]; BECKER DAVID TERRANCE [US]; MACDONALD B) 5 October 2006 (2006-10-05)	3,9,13, 19
A	paragraphs [0019], [0057]	1,2,4,6, 8,11,12, 14,16, 18,22

☐ 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

12 May 2009

Date of mailing of the international search report

28/08/2009

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/081640

Box No. 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 No. 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 fees, this Authority did not invite payment of additional fees.
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.:

see annex

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ 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: 1-4, 6, 8, 9, 11-14, 16, 18, 19, 22

triangulation of the location of the medical device based on the measured signal strengths and the unique IDs of each of the plurality of received signals

2. claims: 5, 7, 10, 15, 17, 20, 21

receiving a signal at the medical device transmitted by a portable patient beacon; sending the received signal transmitted by the portable patient beacon to the processor; and determining, by the processor, a location of the portable patient beacon, based on the determined location of the medical device

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/081640

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