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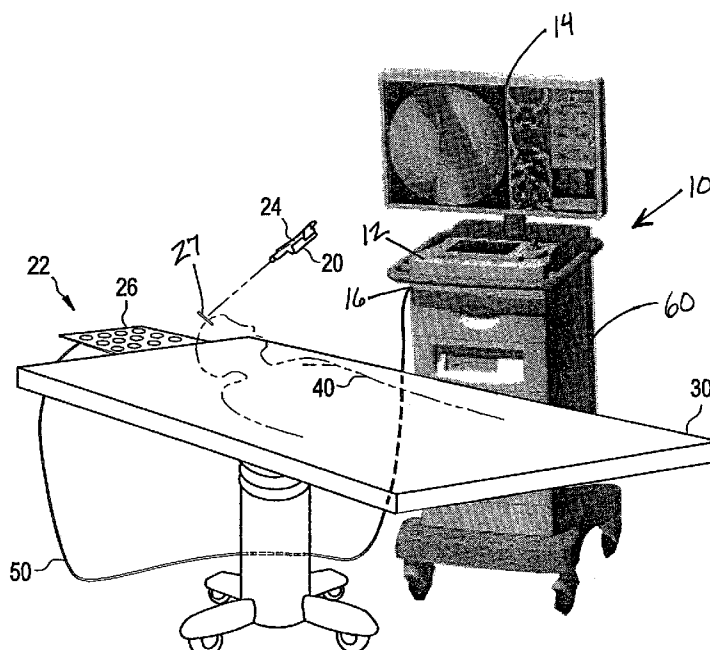
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR SURGICAL NAVIGATION



(57) Abstract: An integrated medical navigation system (10) for use with at least one electromagnetic sensor (22) and at least one device (24) that may comprise at least one electromagnetic field generator (20) coupled to the at least one device, a navigation interface (16) configured to receive digitized signals from the at least one electromagnetic sensor, a tracker module configured to determine a location of the at least one device based on the received digitized signals, and a navigation module configured to receive the location determined by the tracking module, and register the location to acquired patient image data.

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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))*

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

Published:

- *with international search report*

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

30 October 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/085734

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B19/00

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

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| P, X | US 2007/129629 A1 (BEAUREGARD GERALD L [US] ET AL) 7 June 2007 (2007-06-07) the whole document | 1-18, 21-27 |
| P, X | WO 2007/062051 A (GEN ELECTRIC [US]; BEAUREGARD GERALD LEE [US]; GROSZMANN DANIEL EDUARD) 31 May 2007 (2007-05-31) cited in the application the whole document | 1-18, 21-27 |
| P, X | US 2007/167744 A1 (BEAUREGARD GERALD L [US] ET AL) 19 July 2007 (2007-07-19) cited in the application the whole document | 1-18, 21-27 |
| | -/-- | |

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

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- *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 August 2008

Date of mailing of the international search report

08/09/2008

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

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| 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 2005/054900 A1 (MAWN LOUISE A [US] ET AL) 10 March 2005 (2005-03-10) paragraph [0046] - paragraph [0069]; figures 13-15 | 1-16, 21, 24-27 |
| A | WO 02/098273 A (SURGICAL NAVIGATION TECH [US]; JASCOB BRADLEY [US]; SIMON DAVID [US];) 12 December 2002 (2002-12-12) paragraph [0028] - paragraph [0036]; figures 1,2 | 1-18, 21-27 |
| A | JP 2002 006941 A (ISHIKAWAJIMA HARIMA HEAVY IND) 11 January 2002 (2002-01-11) the whole document | 4, 5, 13, 14, 27 |
| A | WO 2004/070578 A (Z KAT INC [US]) 19 August 2004 (2004-08-19) | 8-10, 24, 25 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/085734

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.: 19, 20
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
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:

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable 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.:

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/085734

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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