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- (71) **Applicant (for all designated States except US):** THE JOHNS HOPKINS UNIVERSITY [US/US]; 3400 North Charles Street, Baltimore, Maryland 21218 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** SIEWERDSEN, Jeffrey H. [US/US]; 414 Water Street #2713, Baltimore, Maryland 21202 (US). OTAKE, Yoshito [JP/US]; 6809 Bonnie Ridge Drive, #202, Baltimore, Maryland 21209 (US). TAYLOR, Russell H. [US/US]; 2 Riverview Road, Severna Park, Maryland 21146 (US).
- (74) **Agent:** FLANDRO, Ryan M.; VENABLE LLP, P.O. Box 34385, Washington, District of Columbia 20043-9998 (US).

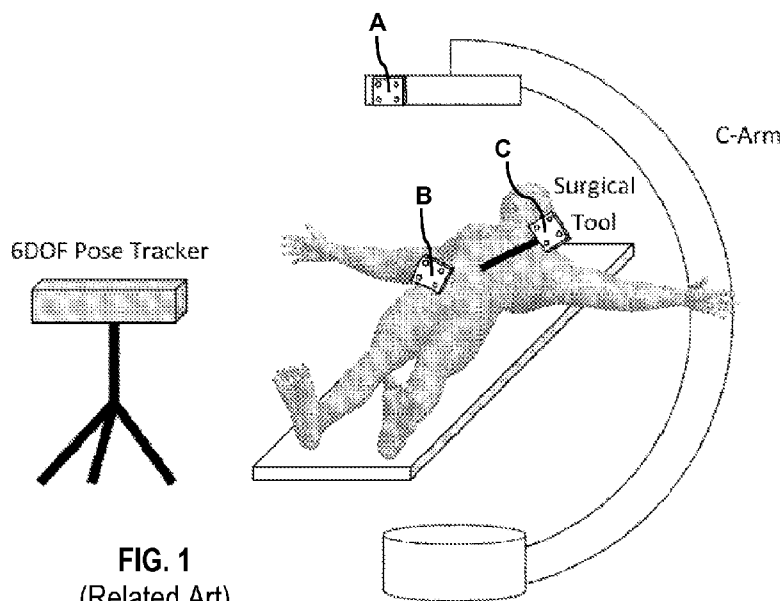
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**Declarations under Rule 4.17:**

- 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))
- of inventorship (Rule 4.17(iv))

[Continued on next page]

(54) **Title:** SYSTEM AND METHOD FOR TRACKING AND NAVIGATION**FIG. 1**  
(Related Art)

(57) **Abstract:** A tracking and navigation system is provided. The system includes an imaging or treatment device, a tracker device, and a fiducial marker. At least part of the imaging or treatment device is movable relative to a patient. The tracker device is mounted on the imaging or treatment device and is movable therewith relative to the patient. The fiducial marker may be fixed relative to the patient to define a patient coordinate system. The fiducial marker is detectable by the tracker device to substantially maintain registration between the tracker device and the patient coordinate system. A tracking and navigation kit including the tracker device and at least one fiducial marker may also be provided, for example, for retrofitting to existing imaging or treatment devices.

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## INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/US2012/035839****A. CLASSIFICATION OF SUBJECT MATTER***A61B 6/00(2006.01)i, A61N 5/10(2006.01)i*

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 6/00; A61B 5/05; G06T 15/00; G06K 9/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: tracking, navigation, marker, c-arm

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                        | Relevant to claim No.      |
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| Y<br>A    | US 7660623 B2 (HUNTER MARK et al.) 09 February 2010<br>See column 3, line 62 - column 8, line 61, claim 35, and figure 1. | 1-9, 14-15<br>10-13, 16-19 |
| Y         | US 6980921 B2 (PETER T. ANDERSON et al.) 27 December 2005<br>See column 2, line 41 - column 17, line 53 and figure 6.     | 1-9, 14-15                 |
| A         | US 2005-0245817 A1 (JOHN CLAYTON et al.) 03 November 2005<br>See paragraphs [0039], [0045] and figure 1.                  | 1-19                       |
| A         | US 2008-0118103 A1 (PESCATORE JEREMIE et al.) 22 May 2008<br>See paragraphs [0040], [0041], claim 15, and figure 2.       | 1-19                       |



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

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"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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

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Authorized officer

KIM Tae Hoon

Telephone No. 82-42-481-5728



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2012/035839**

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