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(71) Applicant (for all designated States except US): **DEVICOR MEDICAL PRODUCTS, INC.** [US/US]; 300 E. Business Way, Cincinnati, OH 45241 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SPEEG, Trevor, W.** [US/US]; 4712 Richey Road, Williamsburg, OH 45176 (US). **MUMAW, Daniel, J.** [US/US]; 953 Long Lane, Milford, OH 45150 (US). **MOORE, Kyle, P.** [US/US]; 6518 Falling Leaves Court, Mason, OH 45040 (US). **CRAIG, Harold, W.** [US/US]; 11110 Brookbridge Drive, Cincinnati, OH 45249 (US). **SHELTON, Frederick, E.** [US/US]; 245 East Main Street, Hillsboro, OH 45133 (US).

(74) Agent: **ULMER, Andrew, B.**; 2200 PNC Center, 201 East Fifth Street, Cincinnati, OH 45202 (US).

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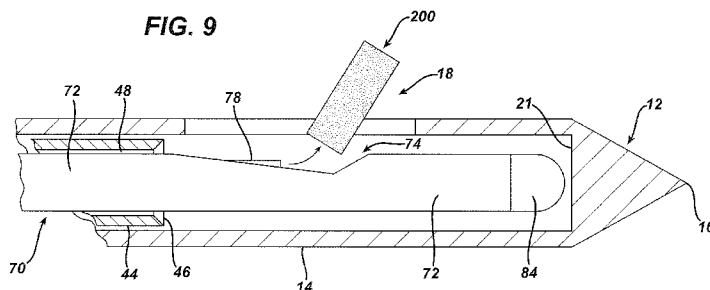
Published:

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

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(54) Title: BIOPSY MARKER DELIVERY DEVICES AND METHODS



(57) Abstract: A biopsy system includes a biopsy device operable for taking one or more biopsy samples from a patient and a marker delivery device. The biopsy device includes a body portion having an alignment feature and a hollow biopsy needle extending distally from the body portion. The marker delivery device includes a marker deployer tube and an alignment feature associated with the marker deployer tube. The alignment feature on the marker delivery device is configured to matingly engage with the alignment feature on the biopsy device. A marker delivery device includes a resilient marker guide ramp.



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**A. CLASSIFICATION OF SUBJECT MATTER***A61B 10/02(2006.01)i, A61B 17/34(2006.01)i, A61M 5/14(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 10/02; A61B 19/00

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: biopsy, cannular, needle, cutter, marker, deployer

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010-0130887 A1 (SELIS JAMES E.) 27 May 2010 See abstract, paragraph[0043]-paragraph[0047], paragraph[0062]-paragraph[0066]; figures 1, 11C, 13A-13B.	1-11
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A	US 2008-0161720 A1 (NICOSON ZACHARY R. et al.) 03 July 2008 See abstract, paragraph[0023]-paragraph[0030], paragraph[0055]-paragraph[0056]; figures 1-2, 8-11	1-17
A	US 2008-0058672 A1 (SENORX, INC.) 06 March 2008 See abstract, paragraph[0046]-paragraph[0048], paragraph[0054]-paragraph[0061], paragraph[0065]-paragraph[0066]; figures 3-5, 22-24.	1-17
A	EP 2156807 A2 (ETHICON ENDO-SURGERY, INC.) 24 February 2010 See abstract, paragraph[0013]-paragraph[0036]; figures 1-7.	1-17

 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 application or patent 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 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

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

Date of the actual completion of the international search

09 MARCH 2012 (09.03.2012)

Date of mailing of the international search report

**12 MARCH 2012 (12.03.2012)**

Name and mailing address of the ISA/KR

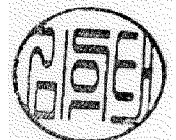
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Authorized officer

Kim Eui Tae

Telephone No. 82-42-481-8710



**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.: 18-20  
because they relate to subject matter not required to be searched by this Authority, namely:

Claims 18-20 pertain to methods for treatment of the human body and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

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 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 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/US2011/044323**

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2011/044323**

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