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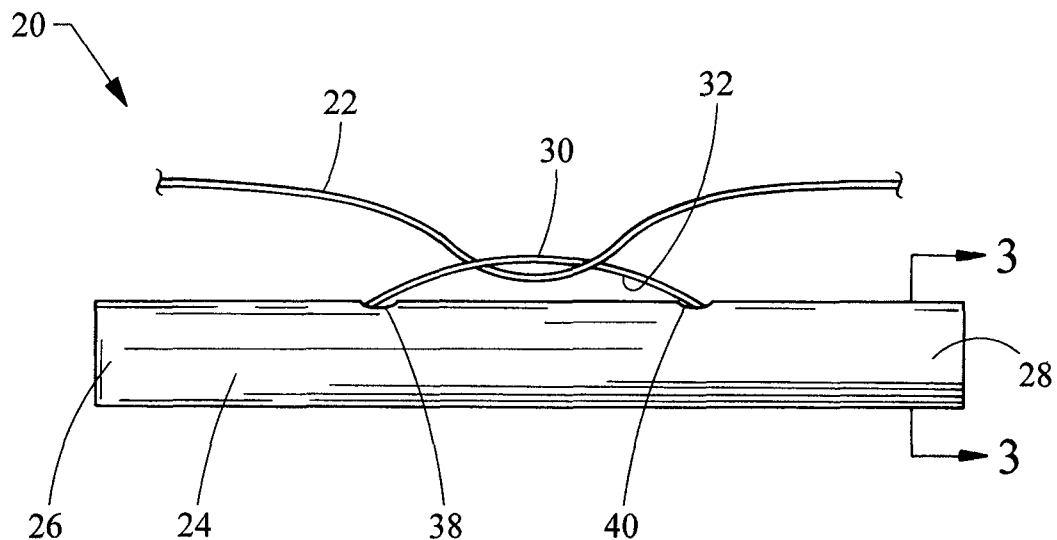
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(88) Date of publication of the international search report:  
25 September 2008

(54) Title: VISCERAL ANCHORS FOR PURSE-STRING CLOSURE OF PERFORATIONS



(57) Abstract: Medical devices and related methods for closing a perforation in a bodily wall. The medical device generally includes a suture having opposing first and second ends and a set of visceral anchors. Each visceral anchor includes a crossbar having opposing ends and a suture slidably attached thereto. Each visceral anchor is passed through the bodily wall adjacent the periphery of the perforation. The ends of the suture are tensioned to reduce the distance between the visceral anchors and compress the bodily wall around the perforation. The ends of the suture are secured to maintain the compression of the bodily wall and close the perforation.

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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2007/085769

## A. CLASSIFICATION OF SUBJECT MATTER

INV. A61B17/04

ADD. A61B17/11 A61B17/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. REIDS 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.
X	EP 1 484 021 A (OLYMPUS CORP [JP]) 8 December 2004 (2004-12-08)	1-4, 7-10
Y	column 11, paragraph 51 - column 12, paragraph 52 figures 10A, 10B	5, 6
X	US 5 333 624 A (TOVEY H JONATHAN [US]) 2 August 1994 (1994-08-02)	1-4, 7, 8
	column 3, line 64 - column 5, line 36 figures 1-7	
Y	EP 1 602 336 A (WILSON COOK MEDICAL INC [US]) 7 December 2005 (2005-12-07)	5, 6
	column 8, paragraph 62 figures 6-9	

**D** 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

**21 May 2008**

Date of mailing of the international search report

**31/07/2008**

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2007/085769

## 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.: 20-24  
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:

**see additional sheet**

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.:

1-10

### 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: 1-10

A delivery device for a plurality of visceral anchors joined by a common suture to close a tissue perforation.

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2. claims: 7,10,11

A visceral anchor comprising a tubular member having passageway therethrough and a slot at a proximal and distal end through which a suture may extend.

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3. claims: 7,12-19

A visceral anchor comprising a bar member having a wire connected to said bar such that a slot suture may extend between the bar member and the wire.

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No

PCT/US2007/085769

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1484021	A	08-12-2004	JP 2004358045 A	24-12-2004
			US 2007100375 A1	03-05-2007
			US 2004249395 A1	09-12-2004
US 5333624	A	02-08-1994	NONE	
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