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- 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))

- (88) **Date of publication of the international search report:**
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(54) **Title:** A MULTI-ARM INSIDE-OUT TOOL FOR DELIVERING IMPLANTS AND METHODS THEREOF

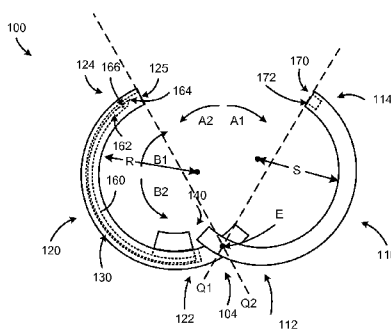


FIG. 1

(57) **Abstract:** In a general aspect, a medical device (100) can include an external arm (110) having a receiving mechanism (170), and an internal arm (120) coupled to the external arm such that the receiving mechanism of the external arm is movable with respect to the internal arm. The medical device can also include a sliding component including a needle (160) configured to be coupled to a portion of an implant and configured to slidably move the needle toward the receiving mechanism of the external arm.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2012/028482

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61F2/00 A61B17/04
ADD.

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)

A61F 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 practicable, 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	WO 2007/106897 A2 (MILLER DENNIS [US]) 20 September 2007 (2007-09-20) page 11, line 23 - page 14, line 8; figures 3a-5d, -----	1-7,9, 11-14,17
A	US 2002/068948 A1 (STORMBY JOHAN [SE] ET AL) 6 June 2002 (2002-06-06) the whole document -----	1-17
A	WO 2009/075800 A1 (AMS RES CORP [US]; WIGNALL SHAWN MICHAEL [US]) 18 June 2009 (2009-06-18) the whole document -----	1,11
A	US 2006/293554 A1 (CRAWFORD BRUCE S [US]) 28 December 2006 (2006-12-28) the whole document -----	1,11



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 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 August 2012

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29/08/2012

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2007106897 A2	20-09-2007	US 2009326573 A1 WO 2007106897 A2	31-12-2009 20-09-2007
US 2002068948 A1	06-06-2002	NONE	
WO 2009075800 A1	18-06-2009	US 2010298630 A1 WO 2009075800 A1	25-11-2010 18-06-2009
US 2006293554 A1	28-12-2006	US 2006293554 A1 WO 2007002619 A2	28-12-2006 04-01-2007

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/028482

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.: 18-20
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 18-20

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2) declaration be overcome.