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(54) Title: MEDICAL DEVICES, SYSTEMS AND METHODS WITH TIP DEFLECTION

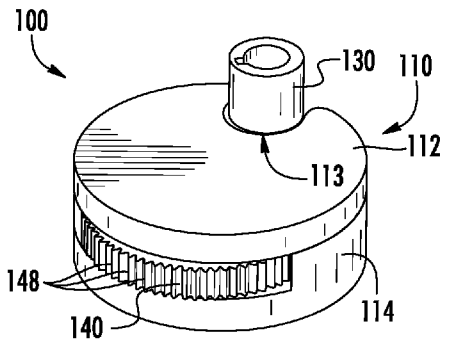


FIG. 1

(57) Abstract: The present disclosure relates generally to the field of medical devices and establishing access to body passageways. In particular, the present disclosure relates to devices, systems and methods to facilitate entry of a guidewire or other endoscopic accessory tool into and/or through patient-specific anatomies. For example, the devices, systems and methods of the present disclosure may rotate a proximal end of a guidewire to transmit mechanical motion to the distal end of the guidewire to facilitate atraumatic access to tortuous or otherwise restricted anatomies.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2019/012657

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B1/00
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)
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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/11814 A2 (UNITED STATES SURGICAL CORP [US]) 26 March 1998 (1998-03-26) page 12, line 11 - page 14, line 9	1-9
A	EP 2 092 898 A2 (ETHICON ENDO SURGERY INC [US]) 26 August 2009 (2009-08-26) paragraph [0187]	1-9

☐ 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	Date of mailing of the international search report
6 August 2019	19/08/2019

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Alvazzi Delfrate, S

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2019/012657

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.:
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 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.:

1-9

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/US2019/012657

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9811814 A2	26-03-1998	AU 4494997 A	14-04-1998
		CA 2266326 A1	26-03-1998
		DE 69736601 T2	27-12-2007
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		PL 2092898 T3	28-04-2017
		RU 2009105055 A	20-08-2010
		US 2009206123 A1	20-08-2009

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

   Medical device comprising a first and second covers wherein a notch is formed within a wall of the first cover

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2. claims: 10-15

   Medical device having three covers and a servo-motor within an opening in the bottom cover

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