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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
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ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
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(54) Title: GUIDE EXTENSION CATHETER

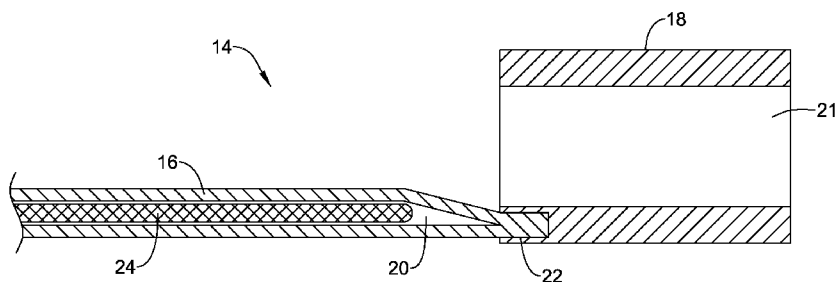


figure 3

(57) Abstract: Medical devices and methods for making and using medical devices are disclosed. An example medical device may include a guide extension catheter. The guide extension catheter may include a proximal tubular member having a lumen defined therein. A distal tubular member may be attached to the proximal tubular member. The proximal tubular member may have an outer diameter. The distal tubular member may have an inner diameter. The inner diameter of the distal tubular member may be greater than the outer diameter of the proximal tubular member. A stiffening member may be slidably disposed within the proximal tubular member.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/063933

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61M25/00 A61M25/06
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)
A61M

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	US 5 662 606 A (CIMINO WILLIAM W [US] ET AL) 2 September 1997 (1997-09-02)	1-5 ,8,
Y	column 6, lines 42-67 ; figures 1,2	14, 15
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X	US 2004/059179 A1 (MAGUIRE MARK [US] ET AL) 25 March 2004 (2004-03-25)	10-13
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Y	US 2003/050600 A1 (RESSEMAN THOMAS V [US] ET AL) 13 March 2003 (2003-03-13)	1,9
	paragraphs [0088] - [0112] ; figures 1a-2c	

Y	US 5 415 639 A (VANDENEINDE DAVID A [US] ET AL) 16 May 1995 (1995-05-16)	6,7 , 10
A	the whole document	11-13

	-/-	1-10



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

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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

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 928 191 A (HOUSER RUSSELL A [US] ET AL) 27 July 1999 (1999-07-27) column 5, lines 3-23 ; figures 1-3 -----</p>	1-13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/063933

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. :

1-13

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: 1-13

A guide extension catheter with proximal and distal tubular members wherein the inner diameter of the distal tubular member is greater than the outer diameter of the proximal tubular member.

2. claims: 14, 15

A catheter system comprising a guide catheter and a guide extension catheter disposed within the guide catheter, wherein a distal end of the guide extension catheter is configured to extend distally beyond the distal end of the guide catheter and into a coronary artery.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/063933

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