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- (81) **Designated States** (*unless otherwise indicated, for every
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BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,
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HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,
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Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))*
- *as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))*

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the
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(54) **Title:** ENDOSCOPIC CLOSURE DEVICE USING SEALANTS

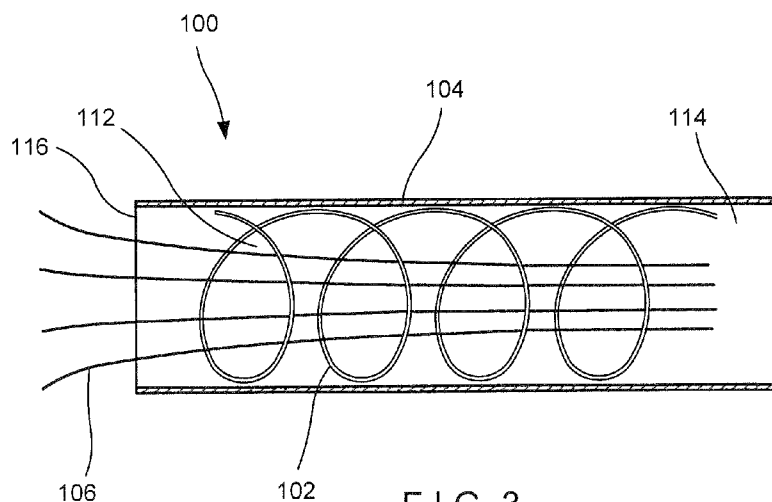


FIG. 3

(57) **Abstract:** A system for treating a tissue defect includes a delivery catheter extending longitudinally from a proximal end to a distal end and including a channel extending therethrough and a tissue closure device movably received with the channel of the delivery catheter to be delivered to target tissue to be treated in combination with a lumen extending within the channel to pass a sealant to target tissue.

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2015/040762

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B17/00 A61B17/29 A61M25/00
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 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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/143348 A1 (WALLACE MICHAEL P [US] ET AL) 3 October 2002 (2002-10-03) paragraph [0031] - paragraph [0043]; figures	1-4,7-9
X	----- WO 2014/110460 A1 (INTERVENE INC [US]) 17 July 2014 (2014-07-17) paragraph [0095] - paragraph [0107]; figures 19A-19C	1,4-9
X	----- WO 2005/084592 A2 (SATIETY INC [US]) 15 September 2005 (2005-09-15) page 14, line 16 - page 15, line 8; figures 24-26	1,4-9
	----- -/-	



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

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"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

8 October 2015

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25/01/2016

Name and mailing address of the ISA/

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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.
X	US 2002/040226 A1 (LAUFER MICHAEL D [US] ET AL) 4 April 2002 (2002-04-04) paragraph [0104] - paragraph [0115]; figures 14A-14C -----	1-4,7-9
X	WO 01/15608 A1 (MICRO THERAPEUTICS INC [US]) 8 March 2001 (2001-03-08) page 7, line 17 - page 13, line 10; figures -----	1-3,8
X	WO 2006/016351 A2 (NEOVASC MEDICAL LTD [IL]; BEN-MUVHAR SHMUEL [IL]) 16 February 2006 (2006-02-16) page 8, line 12 - line 17; figure 3 -----	1-3,7-9
X	EP 1 525 852 A1 (VAYU KK [JP]) 27 April 2005 (2005-04-27) paragraph [0035] - paragraph [0053]; figures -----	1,4-9

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2015/040762

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.

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

A system for treating a tissue defect, comprising: a delivery catheter extending longitudinally from a proximal end to a distal end and including a channel extending therethrough; a tissue closure device movably received with the channel of the delivery catheter to be delivered to target tissue to be treated; and a lumen extending through the delivery catheter to pass a sealant to target tissue.

2. claims: 10-15

A device for delivering a sealant to a target tissue area, comprising: a catheter extending along a longitudinal axis from a proximal end to a distal end and including a channel extending therethrough; and a distal portion connected to the distal end of the catheter and sized and shaped to deliver a sealant passed through the channel to the distal portion to a defined area of a target tissue.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2015/040762

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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