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[Continued on next page]

(54) Title: SYSTEM AND MANDREL FOR CREATING GRAFT DEVICES

(57) Abstract: A system for applying a fiber matrix on a tubular member is provided. A mandrel, configured for atraumatic placement within the tubular member, is included. Methods for atraumatic placement of a mandrel into a tubular member are also provided.

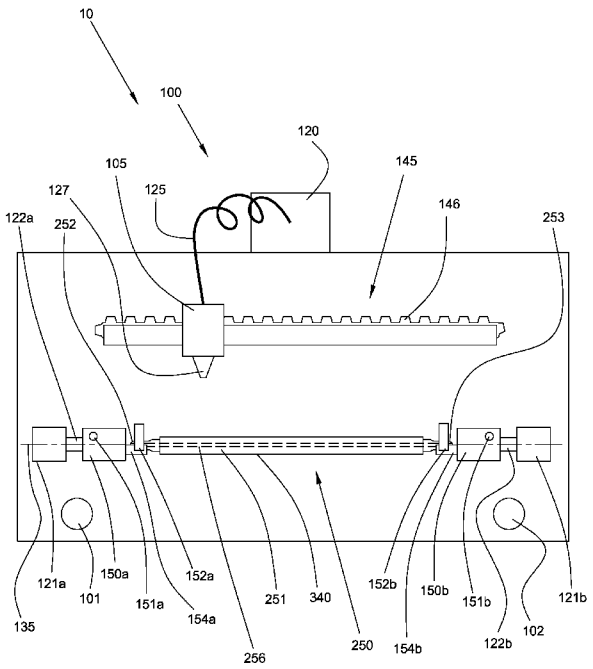


FIG 1

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OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

A61F 2/84(2006.01)i, A61F 2/86(2006.01)i, A61F 2/82(2006.01)i, A61B 17/00(2006.01)i, A61L 27/14(2006.01)i

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 2/84; A61F 1/00; B65H 81/00; A61M 25/092; A61M 25/095; A61F 2/06; A61L 27/00; A61F 1/02; A61B 17/00; B29D 23/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: fiber, matrix, tubular, mandrel, atraumatic, delivery, assembly, lumnen, porous, braid, helical, compressible, tube, balloon, guidewire

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6030371 A (PURSLEY, M. D.) 29 February 2000 See abstract; figures 1a-1d,5,7a,8a,9-15; claims 1-35.	1-287
A	US 4323525 A (BORNAT, A.) 06 April 1982 See abstract; figures 1-3.	1-287
A	US 2009-0030580 A1 (TANG, F. W. et al.) 29 January 2009 See abstract; figures 1-8.	1-287
A	US 7166124 B2 (XIE, H. & BUCKLEY, L. A.) 23 January 2007 See abstract; figures 1-12.	1-287
A	JP 11-076278 A (SCHNEIDER USA INC.) 23 March 1999 See abstract; figure 1.	1-287
A	US 2004-0073294 A1 (DIAZ, S. H. & PARK, K.) 15 April 2004 See abstract; figures 1-5.	1-287
A	US 4738740 A (PINCHUK, L. & MARTIN JR, J. B.) 19 April 1988 See abstract; figures 1-7.	1-287

☒ 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
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"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
21 AUGUST 2012 (21.08.2012)	**22 AUGUST 2012 (22.08.2012)**

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea
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Authorized officer
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Telephone No. 82-42-481-8403

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	US 4798606 A (PINCHUK, L.) 17 January 1989 See abstract; figures 1-9.	1-287
A	US 4475972 A (WONG, E. W. C.) 09 October 1984 See abstract; figure 1.	1-287

INTERNATIONAL SEARCH REPORT

International application No.
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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.: 288-290
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:

Claims 288-290 contain references to the drawings. According to PCT Rule 6.2(a), claims should not contain such references except where absolutely necessary, which is not the case here.

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 addtional 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 fee, this Authority did not invite payment of any additional fee.

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.

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