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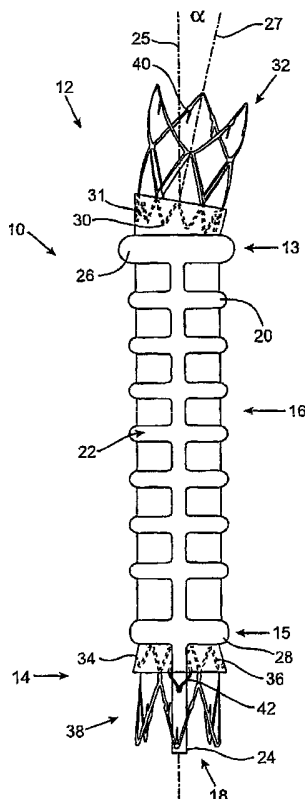
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[Continued on next page]

(54) Title: INFLATABLE POROUS IMPLANTS AND METHODS FOR DRUG DELIVERY

(57) Abstract: The present invention provides inflatable porous implants, such as grafts, stent-grafts, and bladders, as well as methods and kits for drug delivery. In particular, the grafts and stent-grafts of the present invention provide for the delivery of a therapeutic agent into a flow conduit in the body. The inflatable porous implants provide for direct delivery of larger, more precise dosages of drugs over longer administration periods into the body. Moreover, these inflatable porous implants are often flexible when inserted and have a low profile delivery configuration for easy placement. The implants of the present invention further provide a mechanical or structural function in addition to drug delivery in a single integrated structure.



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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/02741

<p>A. CLASSIFICATION OF SUBJECT MATTER</p> <p>IPC(7) : A61F 02/06</p> <p>US CL : 623/1.42,1.43</p> <p>According to International Patent Classification (IPC) or to both national classification and IPC</p>																							
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols)</p> <p>U.S. : 623/1.42,1.43</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)</p> <p>EAST database search terms: polyethylene glycol, stent, curable, drug, agent</p>																							
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US PGPub 20020103527 A1 (Kocur et al) 1 August 2002, all</td> <td>1-9,16,19,21-26,33-34</td> </tr> <tr> <td>---</td> <td></td> <td></td> </tr> <tr> <td>Y</td> <td></td> <td>10-15,17,18,20,27-32</td> </tr> <tr> <td>Y</td> <td>US PGPub 2002/0091440 a1 (Calcote) 11 July 2002, figure 6</td> <td>20</td> </tr> <tr> <td>Y</td> <td>US 6051648 A (Rhee et al) April 18, 2000, abstract</td> <td>10, 12-15, 17, 18, 27, 29-32</td> </tr> <tr> <td>Y</td> <td>US 6663662 B2 (Pacetti et al) 16 December 2003, summary of the invention</td> <td>10-11, 13-15, 27-28, 30</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US PGPub 20020103527 A1 (Kocur et al) 1 August 2002, all	1-9,16,19,21-26,33-34	---			Y		10-15,17,18,20,27-32	Y	US PGPub 2002/0091440 a1 (Calcote) 11 July 2002, figure 6	20	Y	US 6051648 A (Rhee et al) April 18, 2000, abstract	10, 12-15, 17, 18, 27, 29-32	Y	US 6663662 B2 (Pacetti et al) 16 December 2003, summary of the invention	10-11, 13-15, 27-28, 30
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<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.</p>																							
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"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</td> </tr> <tr> <td>"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)</td> <td>"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</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"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	"E" earlier application or patent published on or after the international filing date	"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	"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)	"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	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed												
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<p>Date of the actual completion of the international search</p> <p>13 July 2005 (13.07.2005)</p>		<p>Date of mailing of the international search report</p> <p>22 AUG 2005</p>																					
<p>Name and mailing address of the ISA/US</p> <p>Mail Stop PCT, Attn: ISA/US</p> <p>Commissioner for Patents</p> <p>P.O. Box 1450</p> <p>Alexandria, Virginia 22313-1450</p> <p>Facsimile No. (703) 305-3230</p>		<p>Authorized officer</p> <p>Corrine M McDermott</p> <p>Telephone No. (703) 308-0858</p>																					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/02741

**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.: 35  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claim 35 lacks industrial applicability as defined by PCT Article 33(4). Instructions are a non-statutory subject matter.
  
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:

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 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**
- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | The additional search fees were accompanied by the applicant's protest. |
| <input type="checkbox"/> | No protest accompanied the payment of additional search fees.           |