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ning of each regular issue of the PCT Gazette.*

(54) Title: ASYMMETRIC DRUG ELUTING HEMODIALYSIS GRAFT

(57) Abstract: A hemodialysis graft has one end provided with a deposit containing an anti-stenotic agent. The coated end is connected to a vein to provide protection against stenosis occurring at the venous anastomosis.



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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/021957

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61L27/54 A61M1/14

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)

A61L 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 practical, search terms used)

EPO-Internal, CHEM ABS 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 2003/054090 A1 (HANSEN HENRIK [IE]) 20 March 2003 (2003-03-20) page 2, paragraph 23; claims; examples -----	1-29
X	WO 2004/037443 A1 (MEDTRONIC VASCULAR INC [US]; BRISTER MARK [US]) 6 May 2004 (2004-05-06) page 5, paragraph 23 - paragraph 24 page 6, paragraph 28 -----	1-29
X	WO 01/87374 A (CORDIS CORP [US]) 22 November 2001 (2001-11-22) page 7, line 7 - line 15 page 8, line 23 - line 26 page 17, line 26 - line 29 ----- -/--	1-29

☒ 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 document 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
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- *&* document member of the same patent family

Date of the actual completion of the international search

28 June 2007

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16/07/2007

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ESPINOSA, M

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/021957

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 2003/229392 A1 (WONG SAMUEL J [US]) 11 December 2003 (2003-12-11) cited in the application claims -----	1-29
A	LUMSDEN ET AL: "Nonporous silicone polymer coating of expanded polytetrafluoroethylene grafts reduces graft neointimal hyperplasia in dog and baboon models" JOURNAL OF VASCULAR SURGERY, ST. LOUIS, MO, US, vol. 24, no. 5, November 1996 (1996-11), pages 825-833, XP005141396 ISSN: 0741-5214 abstract -----	1-29
A	MASAKI, TAKAHISA ET AL.: "INHIBITION OF NEOINTIMAL HYPERPLASIA IN VASCULAR GRAFTS BY SUSTAINED PERIVASCULAR DELIVERY PACLITAXEL." KIDNEY INTERNATIONAL, vol. 66, no. 5, 2004, pages 2061-2069, XP002439833 abstract -----	1-29
A	SCHMITZ, PAUL G. ET AL.: "PROPHYLAXIS OF HEMODIALYSIS GRAFT THROMBOSIS WITH FISH OIL: DOUBLE-BLIND, RANDOMIZED, PROSPECTIVE TRIAL." JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY, vol. 13, no. 1, 2002, pages 184-190, XP002439834 abstract -----	1-29
A	ROTMANS, JORIS I ET AL.: "SIROLIMUS-ELUTING STENTS TO ABOLISH INTIMAL HYPERPLASIA AND IMPROVE FLOW IN PORCINE ARTERIOVENOUS GRAFTS." CIRCULATION, vol. 111, no. 12, 2005, pages 1537-1542, XP002439835 abstract -----	1-29

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2006/021957

Box 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.: **1-29 (IN PART)**
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:
see FURTHER INFORMATION sheet PCT/ISA/210
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 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

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2006 /021957

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-29 (IN PART)

The definitions used in the claims are unclear and lack support by the description (Article 5 and 6 PCT). The use of such unclear and unsupported definitions makes a meaningful search of the full scope of the present claims impossible. Hence, the present search of the claims was restricted to documents disclosing grafts (hemodialysis grafts) with coatings deposited on the interior and exterior surface of the tube and comprising therapeutic agents (Article 17(2)(a)(ii) and 17(2)(b) PCT).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/021957

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