



(51) International Patent Classification:

A61F 2/06 (2006.01) A61F 5/445 (2006.01)
A61B 17/11 (2006.01) A61F 2/02 (2006.01)
A61F 5/00 (2006.01) A61B 5/07 (2006.01)
A61F 2/04 (2006.01)

(21) International Application Number:

PCT/EP2008/008589

(22) International Filing Date:

10 October 2008 (10.10.2008)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/960,715	11 October 2007 (11.10.2007)	US
60/960,716	11 October 2007 (11.10.2007)	US
60/960,765	12 October 2007 (12.10.2007)	US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

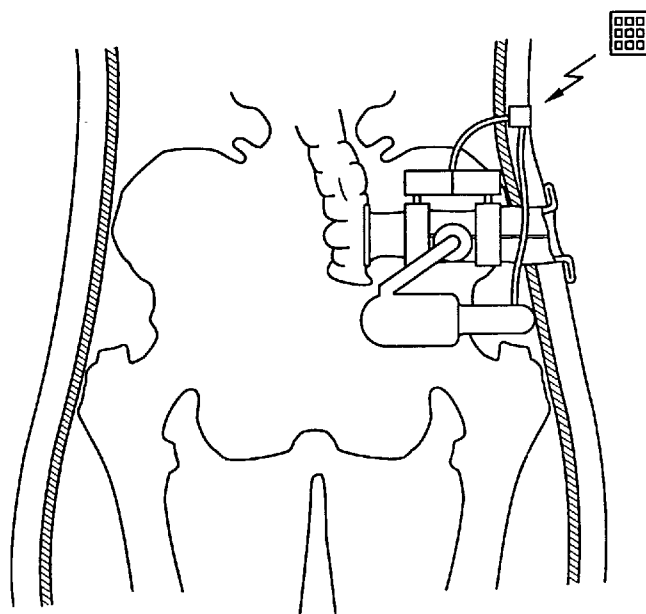
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

[Continued on next page]

(54) Title: ARTIFICIAL INTESTINE SECTION

FIG 12



(57) Abstract: An implantable artificial intestine section is provided for being connected to a surgically created lateral opening in a wall of a patient's intestine. The other end portion thereof may be connected to a surgically created stomy, the patient's rectum or anus, the patient's small intestine or the patient's large intestine. Alternatively, the artificial intestine section may be connected with both open ends to surgically created lateral openings in the wall of the patient's intestine, so as to form a by-pass. Further implantable elements, such as a flow control device, a pump, a motor, a control unit and the like may be combined with the artificial intestine section.



— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:

13 August 2009

International application No
PCT/EP2008/008589

INV.	A61F2/06	A61B17/11	A61F5/00	A61F2/04	A61F5/445
	A61F2/02	A61B5/07			

B. FIELDS SEARCHED

A61F A61B

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

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 248 015 A (RHONE POULENC IND [FR]) 16 May 1975 (1975-05-16) page 3, line 23 - page 4, line 7; figures 4,5 page 4, line 18 - line 22 -----	1-9,14, 16-19
X	US 6 402 767 B1 (NASH JOHN E [US] ET AL) 11 June 2002 (2002-06-11) column 2, line 40 - line 45; figures 1-10,14 column 6, line 10 - line 30 column 7, line 44 - column 8, line 3 ----- -/-	1-5, 7-12,14, 16-17

☒ 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

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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

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"8" document member of the same patent family

Date of the actual completion of the international search

10 June 2009

Date of mailing of the international search report

17/06/2009

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2008/008589

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/087233 A (GI DYNAMICS INC [US]; LEVINE ANDY H [US]; MEADE JOHN C [US]) 14 October 2004 (2004-10-14) page 9, line 1 - line 24; claims 5-9; figures -----	1-5, 7-9, 13-15
X	WO 2006/014496 A (WALKE AMRISH [US]; WOO SANG HOON [US]) 9 February 2006 (2006-02-09) page 8, line 21 - page 9, line 17; figures 1, 2, 4, 17 page 15, line 20 - page 16, line 21 -----	1-9, 13-18, 23-27, 33-34, 36-39, 57
X	US 2004/220516 A1 (SOLOMON STEPHEN [US] ET AL) 4 November 2004 (2004-11-04) paragraphs [0030] - [0032], [0 42], [0 43], [0 61]; figures 1, 11 -----	1-9, 16-17, 23, 25-28, 38, 47
X	US 5 261 898 A (POLIN STANTON G [US] ET AL) 16 November 1993 (1993-11-16) column 4, line 56 - column 5, line 9; figures 2-4, 19 -----	1-2, 6-7, 16, 23-24
X	WO 02/39959 A1 (SINOVA AB [SE]; UNO JOERGEN [SE]) 23 May 2002 (2002-05-23) page 5, line 6 - line 14; figures page 6, line 13 - page 7, line 26 -----	1-3, 5, 7, 16-28, 32, 36-37
X	US 2004/098113 A1 (FORSELL PETER [CH] ET AL) 20 May 2004 (2004-05-20) paragraphs [0044], [0 91] - [0100], [113], [114]; figures 1-10, 22, 23 -----	1-5, 16-18, 23, 25-31, 37-40, 43-44, 47, 57-61
X	US 2004/122527 A1 (IMRAN MIR A [US]) 24 June 2004 (2004-06-24) paragraph [0055] - paragraph [0080]; figures -----	1-5, 16-18, 23-31, 33-35, 38-61

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2008/008589

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.: 106-181
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
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 allsearchable 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.:
1-61
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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-22

An artificial intestine section having two ends whereby one end is suitable for connection to a surgically created lateral opening in an intestine's wall.
(Problem: how to connect an end of a graft to a human intestine)

2. claims: 1, 23-24

An artificial intestine section comprising in addition to the technical features of claim 1: a reservoir (claim 24).
(Problem: collection of intestinal contents)

3. claims: 1, 23, 25-61

An artificial intestine section comprising in addition to the technical features of claim 23: a flow control device.
(Problem: to restrict the flow through the intestine section)

4. claims: 1, 62-77

An artificial intestine section comprising in addition to the technical features of claim 1: an energy source.
(Problem: for supplying energy to an energy consuming part)

5. claims: 1, 23, 62, 78-90

An artificial intestine section comprising in addition to the technical features of claim 23 or 62: a control unit
(Problem: control of elements of the system)

6. claims: 1, 91-96

An artificial intestine section comprising in addition to the technical features of claim 1: a physical parameter sensor
(Problem: to sense a physical parameter of the patient)

7. claims: 1, 97-105

An artificial intestine section comprising in addition to the technical features of claim 1: an intestinal contents collection device.
(Problem: to withdraw intestinal contents from the patient)

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2008/008589

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