(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 30 November 2006 (30.11.2006)

(10) International Publication Number WO 2006/127593 A3

(51) International Patent Classification: A61F 2/04 (2006.01) A61B 17/064 (2006.01)

(21) International Application Number:

PCT/US2006/019727

(22) International Filing Date: 23 May 2006 (23.05.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/683,635 23 May 2005 (23.05.2005) US

(71) Applicant (for all designated States except US): SYNECOR, LLC [US/US]; 3908 Patriot Drive, Suite 170, Durham, NC 27703 (US).

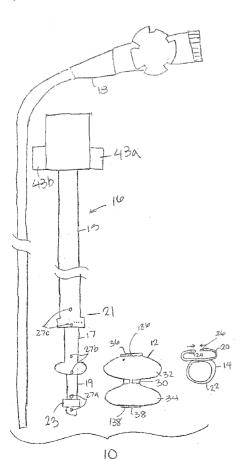
(72) Inventors; and

(75) Inventors/Applicants (for US only): STACK, Richard, S. [US/US]; 106 Alder Place, Chapel Hill, NC 27514 (US). BALBIERZ, Daniel, J. [US/US]; 973 Cambridge Road, Redwood City, CA 94601 (US). ATHAS, William, L. [US/US]; 3901 King Charles Road, Durham, NC 27707 (US). LUNSFORD, John [US/US]; 123 Leslie Drive, San Carlos, CA 94070 (US). VAN BLADEL, Kevin [US/US]; 1425 Murdell Lane, Livermore, CA 94550 (US). MOHAN, Ashik [US/US]; 115 Constitution Drive, Suite 3. Menlo Park, CA 94025 (US). CREWS, Sam [US/US]: 115 Constitution Drive, Suite 3, Menlo Park, CA 94025 (US). VEMURA, Shuji [US/US]; 115 Constitution Drive, Suite 3, Menlo Park, CA 94025 (US). HAWES, Rob [US/US]; 115 Constitution Drive, Suite 3, Menlo Park, CA 94025 (US).

- (74) Agents: FROST, Kathleen, A. et al.; STALLMAN & POLLOCK LLP, 353 Sacramento Street, Suite 2200, San Francisco, CA 94111 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,

[Continued on next page]

(54) Title: RESTRICTIVE AND/OR OBSTRUCTIVE IMPLANT SYSTEM FOR INDUCING WEIGHT LOSS



(57) Abstract: The present application describes an implant system useable for positioning an implant device such as a device useful for restricting passage of ingested food into the stomach. In one embodiment, the disclosed system includes a plurality of anchors that may be coupled to tissue within the stomach, or to a tissue tunnel formed by plicating stomach wall tissue. The anchor includes a loop. During use, the implant device is inserted through the loop and expanded such that it retains its position within the loop until removed. Instruments for implanting and explanting the implant device are also described.

WO 2006/127593 A3 |||||||||||||||||||||||



SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 14 June 2007

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No PCT/US2006/019727

4 0: 100:	TOTAL						
INV.	FICATION OF SUBJECT MATTER A61F2/04 A61B17/064						
	o International Patent Classification (IPC) or to both national classific	ation and IPC					
	SEARCHED						
1	ocumentation searched (classification system followed by classificati ${\sf A61F}$	ion symbols)					
Documenta	tion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched				
	ata base consulted during the international search (name of data ba	ase and, where practical, search terms used					
EPO-In	ternal						
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.				
04.090.)	1						
Х	US 2005/096673 A1 (STACK RICHARD AL) 5 May 2005 (2005-05-05)	S [US] ET	1,2, 4-14,				
			25-27				
	paragraph [0011]; figures 15A,15 paragraph [0133] - paragraph [014						
Х	US 2004/236419 A1 (MILO SIMCHA [2 25 November 2004 (2004-11-25)		1,3,10				
	paragraph [0065] - paragraph [006] figures 4-6B	69];	,				
Furt	her documents are listed in the continuation of Box C.	X See patent family annex.					
l '	* Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but						
consid	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	cited to understand the principle or the invention	eory underlying the				
filing o	date ent which may throw doubts on priority claim(s) or	"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					
citatio	is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the c cannot be considered to involve an inv document is combined with one or mo	ventive step when the				
other means ments, such combination being obvious to a person skilled in the art. "P" document published prior to the international filling date but							
later ti	han the priority date claimed actual completion of the international search		*&* document member of the same patent family Date of mailing of the international search report				
	2 April 2007	19/04/2007					
	mailing address of the ISA/	Authorized officer					
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,	CANOLIET V CANOLIET	1				
	Fax: (+31-70) 340-3016	SANCHEZ Y SANCHEZ	, ∪				

International application No. PCT/US2006/019727

INTERNATIONAL SEARCH REPORT

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. X Claims Nos.: 15-24 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
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 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:
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

Information on patent family members

International application No
PCT/US2006/019727

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2005096673	A1	05-05-2005	US	2005247320 A1	10-11-2005
US 2004236419	A1	25-11-2004	NONE		سن کا اس بینا رسا ای اینا نظم بریم رسا نیور رسا نیان پیدا اس