

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
6 March 2008 (06.03.2008)

PCT

(10) International Publication Number
WO 2008/028037 A3

- (51) International Patent Classification:
A61M 29/00 (2006.01)
- (21) International Application Number:
PCT/US2007/077239
- (22) International Filing Date: 30 August 2007 (30.08.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/841,093 30 August 2006 (30.08.2006) US
- (71) Applicant and
(72) Inventor: YOUNG, Andrew [NZ/US]; 16625 Via Lago Azul, P.O. Box 9690, Rancho Sante Fe, CA 92067 (US).
- (74) Agents: COLLETT, James, W. et al.; Duane Morris LLP, 101 West Broadway, Suite 900, San Diego, CA 92101-8285 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, 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, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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:
20 November 2008

(54) Title: DISTENDER DEVICE AND METHOD FOR TREATMENT OF OBESITY AND METABOLIC AND OTHER DISEASES

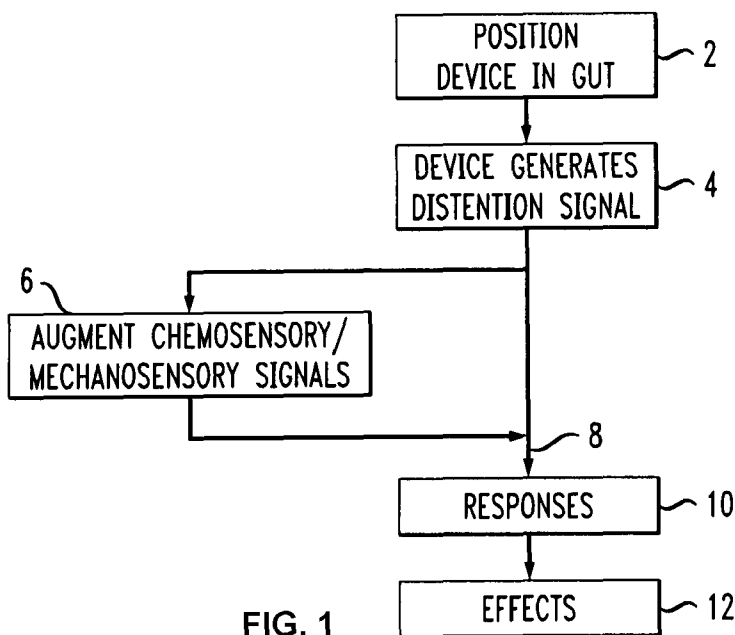


FIG. 1

(57) Abstract: A gastrointestinal implant device is positioned in a patient's small intestine or rectum and produces an outward force that itself produces a distension signal which is a therapeutically useful neural or humoral signal that evokes satigenic or weight loss effects by itself. The device may advantageously be placed in the duodenum adjacent the pylorus or in the jejunum, ileum or rectum. The distension signals may amplify chemosensory or mechanosensory signals such as enteroendocrine secretions within the patient. The device may be a mesh and include a low material density that allows for unrestricted chyme absorption within the small intestine and unrestricted chyme flow through the gastrointestinal system. A method includes inserting the device into the patient then either retrieving the device after treatment is complete or allowing a device formed of a biodegradable material to degrade in time after treatment is complete.

WO 2008/028037 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/77239

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61M 29/00(2006.01)**

USPC: **606/197**
 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)
 U.S. : 606/197

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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,675,809 B2 (STACK et al) 13 January 2004 (13.01.2004), whole document.	1, 2, 4, 6-18, 20-35, 37-42, 44, 45 ----- 19, 36
X	US 4,315,509 (SMIT) 16 February 1982 (16.02.1982), whole document.	24
Y	US 5,820,584 A (CRABB) 13 October 1998 (13.10.1998), whole document.	19, 36
A	US 2004/0107004 A1 (LEVINE et al) 3 June 2004 (03.06.2004), whole document.	1-45
A	US 5,306,300 A (BERRY) 26 April 1994 (26.04.1996), whole document.	1-45
A	US 2005/0125020 A1 (MEADE et al) 9 June 2005 (09.06.2005), whole document.	1-45

Further documents are listed in the continuation of Box C. See patent family annex.

* 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 cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search 27 August 2008 (27.08.2008)	Date of mailing of the international search report 17 SEP 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Authorized officer LINDSEY BACHMAN Telephone No. 703-308-4357 <i>J. Roberts for</i>