Title: NON-INFLATABLE GASTRIC IMPLANTS AND SYSTEMS

Abstract: A variety of passive intragastric implant devices for obesity treatment are disclosed. Such passive devices do not autonomously change shape, but instead react within the stomach to induce satiety. The devices may take up volume within the stomach, thus reducing the intake capacity. Additionally, the devices may contact areas within the stomach, such as the cardia surrounding the esophageal sphincter, or the greater and lesser curvatures in the middle of the stomach, to stimulate satiety-inducing nerves. Some devices may combine two or more of these satiety-inducing features. Methods of implant are disclosed including compressing the devices within a delivery tube and transorally advancing the devices through the esophagus to be deployed within the stomach. Removal of the devices occurs in the reverse.

FIG. 1

Jason [US/US]; 71 South Los Carneros Road, Goleta, California 931 17 (US).


(54) Title: NON-INFLATABLE GASTRIC IMPLANTS AND SYSTEMS

(57) Abstract: A variety of passive intragastric implant devices for obesity treatment are disclosed. Such passive devices do not autonomously change shape, but instead react within the stomach to induce satiety. The devices may take up volume within the stomach, thus reducing the intake capacity. Additionally, the devices may contact areas within the stomach, such as the cardia surrounding the esophageal sphincter, or the greater and lesser curvatures in the middle of the stomach, to stimulate satiety-inducing nerves. Some devices may combine two or more of these satiety-inducing features. Methods of implant are disclosed including compressing the devices within a delivery tube and transorally advancing the devices through the esophagus to be deployed within the stomach. Removal of the devices occurs in the reverse.

FIG. 1
Declarations under Rule 4.17:
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17)  
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17)

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))
— the filing date of the international application is within two months from the date of expiration of the priority period (Rule 26bis.3)

(88) Date of publication of the international search report:
7 September 2012
INTERNATIONAL SEARCH REPORT

PCT/US2011/056880

A. CLASSIFICATION OF SUBJECT MATTER

IN V. A61 F5/00
ADD.

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)

A61 F

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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</table>

☐ 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 application or patent 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

**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

*8* document member of the same patent family

Date of the actual completion of the international search

9 May 2012

Date of mailing of the international search report

13/07/2012

Name and mailing address of the ISA/

European Patent Office, P.B. 5815 Patentlaan 2 NL - 2280 HV Ljouwerk
Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016

Authorized officer:

Jansson Godoy, Nina

Form PCT/ISA/210 (second sheet) (April 2009)
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INTERNATIONAL SEARCH REPORT

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.:
   because they relate to subject matter not required to be searched by this Authority, namely:

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 64(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 all searchable 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:
   - 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.:
   - 1-6, 29

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

1. claims: 1-6, 29
   An intragastric implant having a relaxed configuration forming a non-uniform helix wherein the end coils are smaller than the middle coil.

2. claims: 7-12
   An intragastric implant having a relaxed configuration forming a helix having end coils and a middle region without coils.

3. claims: 13-21
   An intragastric implant having a series of non-inflatable members with male and female mating connectors and a tether passing through the bores of the members.

4. claims: 22-25
   An intragastric implant having a an expandable net-like body formed of a plurality of struts.

5. claims: 26-28
   An intragastric implant having a relaxed configuration forming a coil. The ends of the coil being adapted to connect together to form a continuous loop.