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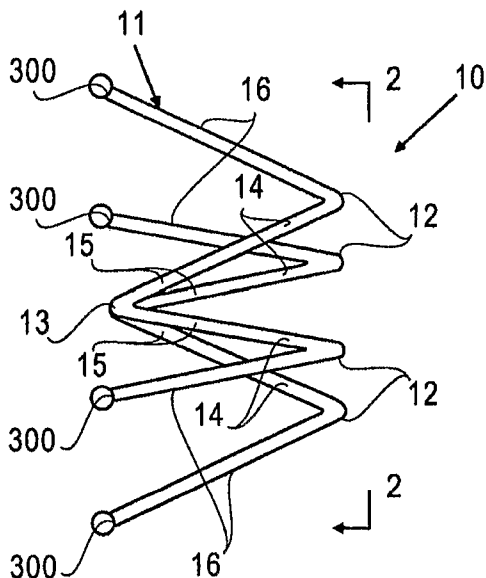
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND DEVICES FOR DEPLOYMENT INTO A LUMEN



(57) Abstract: The invention described is directed to an intracorporeal occluding device (10) having elements (24, 25, 26, 27) with non-traumatic ends (303) and devices, systems and methods for occluding the lumens of anatomical passageways and/or for delivering drugs or other substances to the bodies of human or animal subjects.

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER

INV. A61F6/22
ADD. A61B17/12

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)

A61B A61F

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, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	WO 2005/000161 A (OVION INC [US]; CALLISTER JEFFREY P [US]; TREMULIS WILLIAM S [US]) 6 January 2005 (2005-01-06) page 7, line 29 - page 10, line 23 page 17, line 11 - line 24; figure 6 -----	1-3,6-8, 17,18, 20-26 9,11,13
X	WO 2005/105008 A (DOORZAND GUARDIAN ANGEL B V [NL]; DOORSCHODT BENEDICT MARIE [NL]) 10 November 2005 (2005-11-10) page 4, line 19 - page 5, line 4; figures 1-3 -----	1,2,4,5, 8,11,13, 21
X	US 2003/066533 A1 (LOY RANDALL A [US]) 10 April 2003 (2003-04-10) paragraph [0036] - paragraph [0039]; figure 1 ----- -/-	1,8,21, 22

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
- *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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

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International application No
PCT/US2007/005400

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 459 707 A (CORDIS CORP [US]) 22 September 2004 (2004-09-22) paragraph [0036] - paragraph [0037] -----	9
Y	WO 2004/082532 A (EV3 SUNNYVALE INC [US]; KREIDLER MARC S [US]; DE CICCIO DINO [US]; VAN) 30 September 2004 (2004-09-30) page 22, column 11 - column 15; figures 3,4 -----	11,13

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/005400

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.: 60-70
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:

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 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.:

see additional sheet(s)

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 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: 1-26

An occluding member for a person's reproductive lumen having at least one segment with a first contracted configuration and a second expanded configuration, comprising: a first expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said first end when in expanded configuration, and at least one additional expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said central location in expanded configuration.

2. claims: 27-42

An occluding member for a patient's reproductive lumen comprising a first and a second spider segment, the second spider segment being axially spaced from the first segment, each of the segments comprising: a first expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said first end when in expanded configuration, and at least one additional expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said central location in expanded configuration.

3. claims: 43-49

A minimally invasive system for occluding a patient's reproductive body lumen, comprising an elongated delivery catheter and an occluding member being disposed within an inner lumen of the catheter and having at least one spider segment having: a first expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said first end when in expanded configuration, and at least one additional expansive element having a first end secured to a central location and having a non-traumatic end radially spaced from said central location in expanded configuration.

4. claims: 50-54

An occluding member for a person's reproductive lumen comprising a brush element having a plurality of members with first ends being secured in a central location, and second ends radiating from the central location forming a contour having at least one substantially circular cross section, and at least one non-traumatic element secured to at least one of the second end.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

5. claim: 55

An occluding member for a person's reproductive lumen comprising a first and a second member each with a first and a second end, the first end of each of said first and second member secured to a spring element; and at least one non-traumatic element secured to at least one second end.

6. claims: 56-58

An occluding member for a person's reproductive lumen comprising a plurality of inner-members with first inner-member ends being secured to a central location and non-traumatic ends, and second inner-member ends extending axially and radially away from the central location and forming an expansive diameter.

7. claim: 59

An occluding member for a person's reproductive lumen having at least one segment with a first contracted configuration and a second expanded configuration, comprising a first expansive element having a first end and a non-traumatic end radially spaced from said first end when in expanded configuration, at least one additional expansive element having a first end and a non-traumatic end radially spaced from said central location in expanded configuration, and means of connecting the first expansive element to an additional expansive element.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/005400

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