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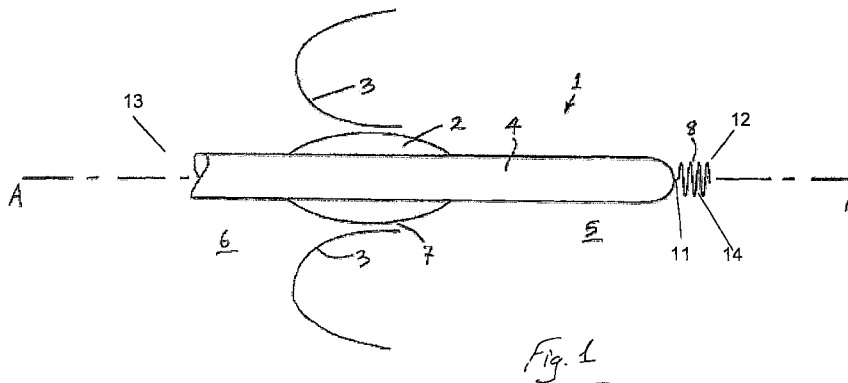
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(54) Title: A MEDICAL DEVICE FOR USE IN TREATMENT OF A VALVE



(57) Abstract: A medical device 1 for use in treatment of a valve comprises a treatment element 2 which is configured for location at a region of coaption of leaflets 3 of a valve to resist fluid flow in a retrograde direction through an opening 7 of the valve. The device also comprises a support 4 for the treatment element 2, and an anchor 8 for anchoring the support 4 to a heart wall. The treatment element 2 and/or at least a part of the support 4 comprises a hydrogel.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IE2008/000104

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61F2/24

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)
A61F A61B

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2007/050256 A (CARDIO SOLUTIONS [US]; ELIASSEN KENNETH [US]; TALLARIDA STEVEN J [US];) 3 May 2007 (2007-05-03) page 16 - page 18; figures 5,12	1-29,182
X	WO 2007/078772 A (CLEVELAND CLINIC FOUNDATION [US]) 12 July 2007 (2007-07-12) paragraphs [0057], [0060], [0061], [0074], [0075]; figures 1,6B,17	1-29,182
X	WO 2006/064490 A (MEDNUA LTD [IE]; QUINN MARTIN [IE]) 22 June 2006 (2006-06-22) paragraph [0088]; claims 132,147; figures 31,32	1-29,182
A	US 2007/232992 A1 (KUTSKO JAMES [US] ET AL) 4 October 2007 (2007-10-04) paragraph [0034]; figure 2	1-29,182
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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
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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
- *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.
- *&* document member of the same patent family

Date of the actual completion of the international search

14 July 2009

Date of mailing of the international search report

28/10/2009

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INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2006/102329 A (MICROVENTION INC [US]; MARTINEZ GEORGE [US]) 28 September 2006 (2006-09-28) the whole document	1-29,182
A	US 2006/193899 A1 (SAWHNEY AMARPREET S [US]) 31 August 2006 (2006-08-31) abstract	1-29,182
A	WO 2007/016097 A (GEORGIA TECH RES INST [US]; SATHE RAHUL DILIP [US]; KU DAVID N [US]) 8 February 2007 (2007-02-08) paragraph [0036]; claim 32	1-29,182

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IE2008/000104

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.: 206, 30-181, 183-205
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 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 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 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: 1-29,182

hydrogel component

2. claims: 30-67

mounting tube

3. claims: 68-105

delivery device and slack promoting region

4. claims: 106-121

reinforcement

5. claims: 122-157

anchor wire

6. claims: 158-181

abutment stop

7. claims: 183-205

anchor limiter

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IE2008/000104

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