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61/440,742 8 February 2011 (08.02.2011) US(71) Applicant (for all designated States except US): **ADVANCED BIFURCATION SYSTEMS, INC.** [US/US]; Cedars-Sinai Medical Towers, 8635 W. 3rd Street, Suite 695W, Los Angeles, California 90048 (US).

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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

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(54) Title: MULTI-STENT AND MULTI-BALLOON APPARATUS FOR TREATING BIFURCATIONS AND METHODS OF USE

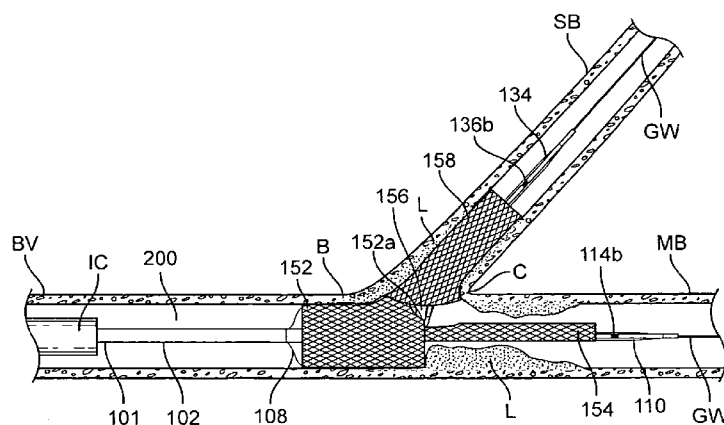


FIG. 6F

(57) Abstract: A system for treating a bifurcated vessel comprises a first delivery catheter and a second delivery catheter. The first delivery catheter carries a first stent comprised of a proximal stent and a distal stent. The first delivery catheter also has a first elongate shaft, a proximal expandable member with the proximal stent disposed thereover, and a distal expandable member with the distal stent disposed thereover. The proximal and distal expandable members are independently expandable of one another. The second delivery catheter carries a second stent. The second delivery catheter also has a second elongate shaft, and a second expandable member with the second stent disposed thereover. The second expandable member is independently expandable of the proximal and the distal expandable members.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US12/24366

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 2/06 (2012.01)

USPC - 623/1.16, 1.11, 1.1, 1.15, 1.35

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)

IPC(8): A61F 2/06 (2012.01)

USPC: 623/1.16, 1.11, 1.1, 1.15, 1.35

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)

MicroPatent (US-Granted, US-Applications, EP-A, EP-B, WO, JP (bibliographic data only), DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPRO; Medline/PubMed; Google Scholar; Google Patents; Google; Elsevier; bifurcate, vessel, catheter, stent, proximal, distal, expand, enlarge, branch, radiopaque, balloon, carina, ostium, crimp

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 2005/0182473 A1 (EIDENSCHINK, T et al.) August 18, 2005, figures 10, 11, 15, 16, 18, 19; paragraphs [0013], [0017], [0018], [0041], [0053]-[0057], [0110], [0116], [0119]-[0124], [0126], [0127], [0130]; Claim 1	1-5, 9-12, 14, 16-28, 32-40, 85-115 ----- 6-8, 13, 15, 29-31, 41-84
Y	US 2008/0208309 A1 (SAEED, M) August 28, 2008, figure 7; Claims 3, 4, 6, 7	6, 7, 29, 30
Y	US 6344056 B1 (DEHDASHTIAN, M) February 5, 2002, abstract	8, 31
Y	EP 1788977 B1 (FEARNOT, NE) March 19, 2008, paragraphs [0102], [0113], [0115]-[0117]; figures 1a-1c, 1e, 5, 7	13, 41-84
Y	US 6811566 B1 (PENN, IM et al.) November 2, 2004 (02.11.2004), figures 2-4; column 7, lines 25-45	15
Y	WO 2010/036982 A1 (BOURANG, H et al.) April 1, 2010, page 8, lines 7-10	57, 78

☐ Further documents are listed in the continuation of Box C.

* 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

"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

06 August 2012 (06.08.2012)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US12/24366

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 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:

Group I: Claims 1-115
Group II: Claim 116

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 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.:

Claims 1-115

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.