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- (71) Applicant (for all designated States except US): **C.R. BARD INC.** [US/US]; 730 Central Avenue, Murray Hills, NJ 07974 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KASHKAROV, Alexander, Germanovich** [RU/RU]; 33/5, Apt. 43, St. Petersburg, 190000 (RU). **CHANDUSZKO, Andrzej, J.**

[US/US]; 311 North Carriage Lane, Chandler, AZ 85224 (US).

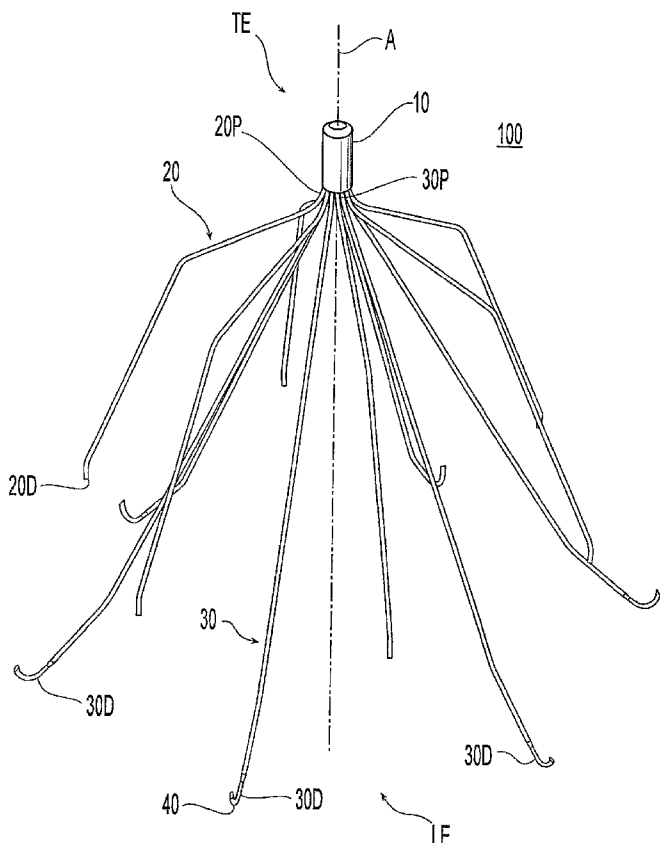
(74) Agent: **LAUB, David, W.**; PROSKAUER ROSE LLP, 1001 PENNSYLVANIA AVENUE, N.W., Suite 400 South, Washington, DC 20004 (US).

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[Continued on next page]

(54) Title: REMOVABLE BLOOD CLOT FILTER WITH EDGE FOR CUTTING THROUGH THE ENDOTHELIUM



(57) Abstract: A removable blood clot filter includes anchor members with a sharp edge configured so that when the filter is removed the sharp edge aids in passing the anchor members through endothelial tissue. The filter may also include a sharp edge on locator members configured to aid pulling the locator members away from the endothelial tissue.

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RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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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.

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US 06/62722

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61F 2/01 (2007.01) USPC - 623/1.15 According to International Patent Classification (IPC) or to both national classification and IPC</p>																																							
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) USPC: 623/1.15 IPC(8): A61F 2/01 (2007.01)</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST: (filter or valve or implant or electrode\$4 or stent) and (slic\$4 or sharp\$4 or blade or knife or cut) near15 (remov\$4 or dislodg\$4)</p>																																							
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X --- Y</td> <td>US 6,007,558 A (RAVENSCROFT et al.) 28 December 1999 (28.12.1999) Entire document, particularly Fig 1-3; col 5, ln 39-44; col 5, ln 61 ? col 6, ln 7; col 6, ln 61 ? col 7, ln 2.</td> <td>1-5, 11, 14, 17, 22-24 ----- 12, 13, 18-21</td> </tr> <tr> <td>Y</td> <td>US 6,258,026 B1 (RAVENSCROFT et al.) 10 July 2001 (10.07.2001) Entire document, particularly Fig 9.</td> <td>12, 13, 19-21</td> </tr> <tr> <td>Y</td> <td>US 6,589,266 B2 (WHITCHER et al.) 08 July 2003 (08.07.2003) Fig 2, 3; col 4, ln 25-26; col 4, ln 46-51; col 3, ln 35-47.</td> <td>19-21</td> </tr> <tr> <td>Y</td> <td>US 6,623,506 B2 (McGUCKIN, Jr. et al.) 23 September 2003 (23.09.2003) Fig 20; col 13, ln 16-20.</td> <td>18</td> </tr> </tbody> </table> <p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p> <table border="0"> <tr> <td>* Special categories of cited documents:</td> <td>"I"</td> <td>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</td> </tr> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"X"</td> <td>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</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"Y"</td> <td>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</td> </tr> <tr> <td>"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)</td> <td>"&amp;"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td></td> <td></td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table> <table border="1"> <tr> <td>Date of the actual completion of the international search 04 September 2007 (04.09.2007)</td> <td>Date of mailing of the international search report <b>03 OCT 2007</b></td> </tr> <tr> <td>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</td> <td>Authorized officer: Lee W. 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**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.: 6-10 and 15-16  
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:

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.:

- 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.