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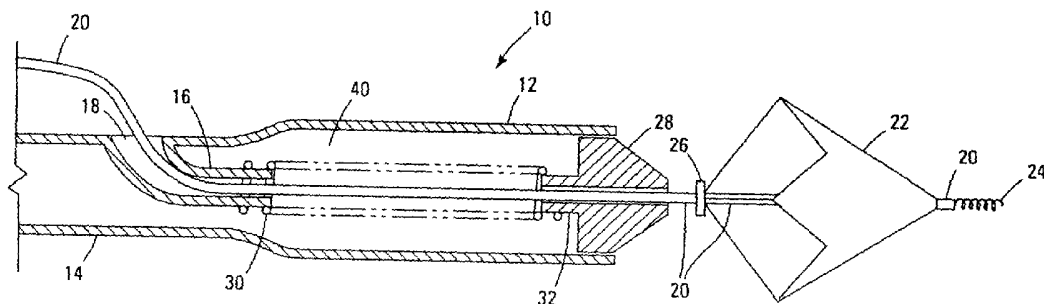
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*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: INTRAVASCULAR FILTER RETRIEVAL DEVICE HAVING AN ACTUATABLE DILATOR TIP



(57) Abstract: A filter retrieval device having an actuatable dilator tip for retrieval of an intravascular filter from a body lumen is disclosed. An outer shaft coupled to a distal sheath is advanced along a filter wire to desired point within the vasculature. An intravascular filter such as a distal protection filter can be advance along the filter wire to a point distal a lesion to collect debris dislodged during a medical procedure. Disposable in part within the distal sheath is an actuatable dilator tip adapted to retrieve the filter at least in part within the distal sheath. Actuation of the dilator tip may be accomplished by any number of means, including a resilient member such as a spring coil, or by a reduced inner diameter portion disposed on the distal sheath adapted to engage a plurality of surfaces disposed on the dilator tip.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/06323

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61F2/01

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 7 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

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 49970 A (SCIMED LIFE SYSTEMS INC) 31 August 2000 (2000-08-31) page 17, paragraph 4 -page 19, paragraph 3; figures 20-22	1,2
A	----	14,17,19
X	WO 01 12082 A (GILSON PAUL ;SALVIAC LTD (IE); GRIFFIN PATRICK (IE); VALE DAVID (I) 22 February 2001 (2001-02-22) page 13, line 18 -page 14, line 17; figures	1,2
A	----	14,17,19
A	FR 2 774 893 A (BRAUN CELSA SA) 20 August 1999 (1999-08-20) page 3, line 14 - line 17; claims 1-5; figures	1,3-5, 17,18
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☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in 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)
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*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

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## INTERNATIONAL SEARCH REPORT

International application No.  
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### Box I Observations where certain claims were found unsearchable (Continuation of item 1 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.: 22-29  
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 II Observations where unity of invention is lacking (Continuation of item 2 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 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.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/06323

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