

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/08183

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61F2/01 A61M25/10

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 A61M

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, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 40964 A (FRID NOUREDDINE ; RUFENACHT DANIEL (CH); MEDICORP SA (FR); AMOR MAX) 19 August 1999 (1999-08-19) the whole document ---	1-10, 17-24
A	WO 99 08744 A (SHAKNOVICH ALEXANDER) 25 February 1999 (1999-02-25) the whole document ---	1-10, 17-24
A	US 5 728 068 A (WEISSINGER KARL PHILLIP ET AL) 17 March 1998 (1998-03-17) claim 1; figures --- -/--	1,8,17, 22

☒ 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)
"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

31 October 2001

Date of mailing of the international search report

26. 03. 2002

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INTERNATIONAL SEARCH REPORT

Inter. Appl. 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	<p>PATENT ABSTRACTS OF JAPAN vol. 1999, no. 11, 30 September 1999 (1999-09-30) & JP 11 164890 A (TORAY MEDICAL CO LTD), 22 June 1999 (1999-06-22) abstract</p> <p>-----</p>	<p>1,8,17, 22</p>

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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.: 11-16, 25, 31-33, 39-42
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:

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.:
1-10, 17-24

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: 1-10,17-24

An emboli protection system comprising a catheter with a distal blocking balloon having a surface defining a plurality of perforations facing the proximal end of the catheter, a proximal blocking balloon having a surface defining a plurality of perforations facing away from the proximal end of the proximal blocking balloon catheter and inflation fluid supply for supplying inflation fluid to the inflatable balloons which can exit the perforations and flush emboli in the isolated portion of the blood.

2. Claims: 26-30

An emboli protection system comprising a catheter shaft having an inflatable balloon with a surface defining a plurality of perforations in the balloon facing the proximal end of the shaft and an inflation valve disposed in the catheter shaft.

3. Claims: 34-38,43-47

An emboli protection system comprising a catheter shaft having a first inflatable balloon, an infusion and an evacuation port on the surface of the catheter shaft and a second and third inflatable balloons.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter. .onal Application No

PCT/US 01/08183

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9940964	A	19-08-1999	AU 3241099 A WO 9940964 A1 EP 0935978 A1 EP 1061986 A1 US 6059809 A	30-08-1999 19-08-1999 18-08-1999 27-12-2000 09-05-2000
WO 9908744	A	25-02-1999	AU 8907498 A WO 9908744 A1	08-03-1999 25-02-1999
US 5728068	A	17-03-1998	US 5505700 A CA 2241176 A1 EP 0935479 A1 WO 9724154 A1 US 5588961 A	09-04-1996 10-07-1997 18-08-1999 10-07-1997 31-12-1996
JP 11164890	A	22-06-1999	NONE	