

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/047969**A. CLASSIFICATION OF SUBJECT MATTER***A61M 25/08(2006.01)i, A61M 25/01(2006.01)i, A61B 18/24(2006.01)i, A61B 18/18(2006.01)i*

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 9 : A61M 25/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

KOMPASS(KIPO internal) Keyword : "catheter", "electrode", "shaft", "probe"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,545,200 A (West, Scott H. et al.), 13 AUGUST 1996 See Claims 1-32, Figures 1-15	1-22
A	US 2001/0044624 A1 (Seraj, Mahmoud K. et al.), 22 NOVEMBER 2001 See Claims 1-34, Figures 1-12	1-22
A	US 5,775,327 A (Randolph, Yvonne et al.), 07 JULY 1998 See Claims 1-16, Figures 1-11	1-22
A	US 5,843,020 A (Tu, Hosheng et al.), 01 DECEMBER 1998 See Claims 1-20, Figures 1-5	1-22

☐ 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 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 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

21 JANUARY 2010 (21.01.2010)

Date of mailing of the international search report

21 JANUARY 2010 (21.01.2010)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

HAN, SANG SOO

Telephone No. 82-42-481-8648



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/047969

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.: 23-31
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 23-31 relate to a method of treating undesirable cellular growth, which fall into the category of methods for treatment of the human body by surgery or therapy as well as diagnostic methods [Article 17(2)(a)(i), Rule 39.1(iv) PCT].
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:

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 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2009/047969

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 05545200 A	13.08.1996	US 05487757 A	30.01.1996
US 2001-0044624 A1	22.11.2001	CA 2483442 A1	06.11.2003
		CA 2482971 A1	06.11.2003
		CA 2483158 A1	06.11.2003
		EP 1499379 A1	26.01.2005
		EP 1501578 A1	02.02.2005
		EP 1501579 B1	26.08.2009
		EP 1501579 A1	02.02.2005
		JP 04-338530 B2	10.07.2009
		JP 2005-523125 A	04.08.2005
		JP 2005-523124 A	04.08.2005
		JP 2005-523126 A	04.08.2005
		US 2002-0173785 A1	21.11.2002
		US 2002-0165537 A1	07.11.2002
		US 06733500 B2	11.05.2004
		US 06743227 B2	01.06.2004
		US 06836687 B2	28.12.2004
		US 07497844 B2	03.03.2009
		US 2002-0165536 A1	07.11.2002
		WO 2003-090833 A1	06.11.2003
		WO 2003-090832 A1	06.11.2003
		WO 2003-090835 A1	06.11.2003
US 05775327 A	07.07.1998	CA 2223990 C	30.01.2007
		JP 11-507251 A	29.06.1999
		WO 1996-040342 A1	19.12.1996
US 05843020 A	01.12.1998	US 06245067 B1	12.06.2001