(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 19 June 2008 (19.06.2008)

(51) International Patent Classification: A61M 25/00 (2006.01) A61B 8/12 (2006.01)

(21) International Application Number:

PCT/US2007/024170

(22) International Filing Date:

16 November 2007 (16.11.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/873,598

8 December 2006 (08.12.2006) US

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- (10) International Publication Number WO 2008/073214 A3
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 31 July 2008

(54) Title: THERAPEUTIC CATHETER WITH DISPLACEMENT SENSING TRANSDUCER

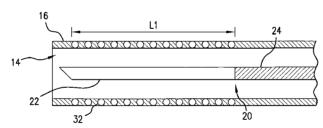


FIG.3A

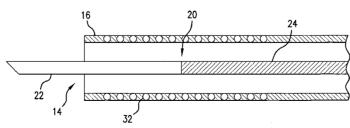


FIG.3B

(57) Abstract: A catheter device having a proboscis, such as a needle (22), and a transducer which detects the axial displacement of the proboscis in relation to the distal tip or the catheter.. The transducer is positioned at a distal portion of the catheter and may comprise an induction coil (32) or a potentiometer. Axial displacement of the proboscis changes the amount of inductance or resistance in the transducer. This change in inductance or resistance can be calibrated to the amount of axial displacement of the proboscis and provided as feedback to the user.



INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/024170

A. CLASSIFICATION OF SUBJECT MATTER INV. A61M25/00

ADD. A61B8/12

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)

A61M A61B

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, WPI Data

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C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category*		Citation of document, with indication, where appropriate, of the relevant passages			
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		-/			
X Furti	her documents are listed in the continuation of Box C.	X 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 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 ciled 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	Date of mailing of the International sea	rch report		
1	5 May 2008	03/06/2008			
Name and r	Mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswljk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	. Authorized officer . Willig, Hendrik			

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/024170

Patagoni*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Category*	Chailon of document, with indication, where appropriate, of the relevant passages		Televant to olain 140,
P	US 5 313 160 A (GLODEN MICHAEL L [US] ET AL) 17 May 1994 (1994-05-17) abstract		1-20
A	BRANDA{O FARIA J A: "A new magnetic displacement sensor and linear actuator device" JOURNAL OF APPLIED PHYSICS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 87, no. 9, 1 May 2000 (2000-05-01), pages 7076-7078, XP012050735 ISSN: 0021-8979 abstract	·	1-20
1	US 2004/260240 A1 (BEYERLEIN DAGMAR [US]) 23 December 2004 (2004-12-23) abstract paragraphs [0063] - [0074]		1-20
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4	GB 2 335 990 A (HEWLETT PACKARD CO [US]) 6 October 1999 (1999-10-06) abstract		1-20
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·			
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 21-23

Claims 21-23 are related to a method of using a catheter device. The method explicitly comprises the step of "advancing the catheter device through a body lumen". This step represents a surgical intervention by means of which the method as a whole is considered to be a method for treatment of the human or animal body by surgery in the sense of Rule 39.1(iv) PCT.

International application No. PCT/US2007/024170

INTERNATIONAL SEARCH REPORT

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. X Claims Nos.: 21-23 because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
 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:
As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable
ciaing.
2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers only those claims for which fees were paid, specifically claims Nos.:
A No required additional accret face were timely sold by the small sold by the
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 applicable and additional search fees were accompanied by the additional search fees were accompa
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/US2007/024170

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