(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 23 December 2010 (23.12.2010)

(10) International Publication Number WO 2010/146614 A3

(51) International Patent Classification: A61M 39/16 (2006.01) A61M 39/22 (2006.01)

(21) International Application Number:

PCT/IT2010/000269

(22) International Filing Date:

15 June 2010 (15.06.2010)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data:

BA2009A000026 16 June 2009 (16.06.2009)

IT

- (72) Inventor; and
- (71) Applicant: GRANDOLFO, Nicola [IT/IT]; Corso Vittorio Emanuele, 51/A, I-70019 Triggiano (BA) (IT).
- (74) Agent: CICCARELLO, Basilio; c/o INGENIIS s.a.s., di Basilio Ciccarello e C., Via Antonio De Berti, 24, I-00143 Roma (IT).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,

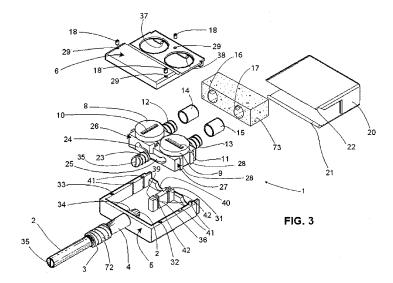
HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- (88) Date of publication of the international search report: 10 February 2011

(54) Title: EXTERNAL END DEVICE FOR PERMANENT CATHETERS



(57) Abstract: An external end device for permanent catheters comprises a container (5) that houses two taps (26, 27) being provided with knobs (8, 9) and having, at one hand, a first connector (23) for the connection to the catheters (2) and, at the other hand, second connectors (12, 13) projecting from the container for the connection to an external equipment. The first connector (23) is connected to the catheter (2) by a coupling (4) exiting the container (5) and externally holding a subcutaneous cuff (3) designed to be positioned in the subcutaneous tissue of the patient's body. The second connectors (12, 13) are provided with caps (14, 15) surrounded by the disposable absorbent material (73) being received in the closure lid (20) and having spaces (16, 17) for housing the caps for protecting them externally from a bacterial attack by means of the antiseptic substance by which it is impregnated. Further an implantation method of the device in a patient is disclosed.





INTERNATIONAL SEARCH REPORT

International application No PCT/IT2010/000269

						
A. CLASSI INV. ADD.	FICATION OF SUBJECT MATTER A61M39/16 A61M39/22					
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC				
B. FIELDS	SEARCHED					
Minimum da A61M	ocumentation searched (classification system followed by classificati	on symbols)				
	tion searched other than minimum documentation to the extent that s		arched			
Electronic d	lata base consulted during the international search (name of data ba	se and, where practical, search terms used)				
EPO-In	ternal					
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.			
А	EP 0 070 087 A1 (BAXTER TRAVENOL 19 January 1983 (1983-01-19) figure 1	LAB [US])	1			
A	US 4 242 310 A (GREFF RICHARD [US 30 December 1980 (1980-12-30) figures 1-3	S] ET AL)	1			
А	US 5 324 274 A (MARTIN GEOFFREY 28 June 1994 (1994-06-28) figures 1-8	[CA])	1			
A	EP 0 227 219 A1 (NIPPON MEDICAL S [JP]) 1 July 1987 (1987-07-01) figures 1-3	1				
[
)						
	<u> </u>					
Furti	her documents are listed in the continuation of Box C.	X See patent family annex.				
* Special of	categories of cited documents:	"T" later document published after the inter				
	"A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance					
"E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention						
"L" docume	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another 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					
citatio	n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an inv document is combined with one or more	entive step when the re other such docu-			
"P" docume	other means ments, such combination being obvious to a person skilled in the art.					
later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report						
Ĭ	7 December 2010	23/12/2010				
Name and	mailing address of the ISA/	Authorized officer				
	European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk					
}	Tel. (+31–70) 340–2040, Fax: (+31–70) 340–3016	Krassow, Heiko				

International application No. PCT/IT2010/000269

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.: 11, 12 because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
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 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 11, 12

Claims 11 and 12 define subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT, and no search report has been drawn up on said claims. The subject-matter defined comprises methods for treatment of the human body by surgery, i.e. methods for implanting a catheter into a patient. Consequently, no International Preliminary Examination of that subject-matter (Article 34(4)(a)(i) PCT) was carried out.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/IT2010/000269

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0070087	A1	19-01-1983	AU	558982 B2	19-02-1987
			AU	8351282 A	11-11-1982
	*		CA	1182144 A1	05-02-1985
			DE	3268770 D1	13-03-1986
,	,		JP	1633858 C	20-01-1992
			JP	2060343 B	17-12-1990
			JP	57203448 A	13-12-1982
			US	4469835 A	04-09-1984
US 4242310	Α	30-12-1980	NONE	·	
US 5324274	Α	28-06-1994	US	5472432 A	05-12-1995
EP 0227219	 Al	01-07-1987	DE	3676287 D1	31-01-1991
	_		JP	1499347 C	29-05-1989
			JP	62079062 A	11-04-1987
			JP	63050022 B	06-10-1988