## (19) World Intellectual Property Organization

International Bureau



## 

# (43) International Publication Date 22 November 2007 (22.11.2007)

(10) International Publication Number WO 2007/133848 A3

- (51) International Patent Classification: *A61F 2/06* (2006.01)
- (21) International Application Number:

PCT/US2007/064540

- (22) International Filing Date: 21 March 2007 (21.03.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

11/387,440 22 Ma

22 March 2006 (22.03.2006) US

- (71) Applicant (for all designated States except US): CAR-DIOMIND, INC. [US/US]; 257 Humboldt Court, Sunnyvale, CA 94089 (US).
- (72) Inventor: KAVINAUGH, Joseph, T. (deceased).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BECKING, Frank, P. [US/US]; P.O. Box 800, Palo Alto, CA 94302 (US). GEORGE, William, R. [US/US]; 435 Oxford Way, Santa Cruz, CA 95060 (US). NIKOLCHEV, Julian [US/US]; 251 Duranzo Way, Portola Valley, CA 94028 (US).
- (74) Agent: ORRICK HERRINGTON & SUTCLIFFE LLP; 4 Park Plaza, Suite 1600, Irvine, CA 92614-2558 (US).

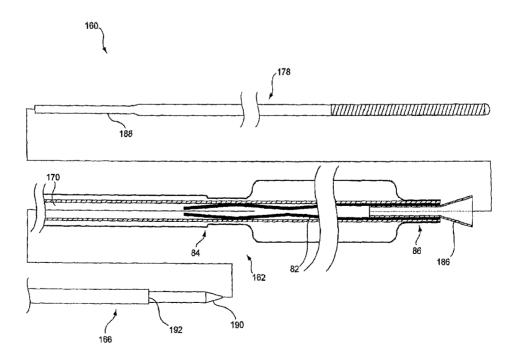
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, 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).

#### **Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

#### (54) Title: GUIDED STENT DELIVERY SYSTEMS OF MINIMAL DIAMETER



(57) Abstract: Medical devices and methods for delivery or implantation of prostheses within hollow body organs and vessels or other luminal anatomy are disclosed. The subject technologies may be used in the treatment of atherosclerosis in stenting procedures or be used in a variety of other procedures.



### WO 2007/133848 A3



#### Published:

(88) Date of publication of the international search report:

7 February 2008

- 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

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US07/64540

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61F 2/06 (2007.10) USPC - 623/1.11 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(8) - A61F 2/06 (2007.10) USPC - 623/1.11			
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 practicable, search terms used)			
MicroPatent			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
x	US 2005/0209670 A1 (GEORGE et al) 22 September 2	2005 (22.09.2005) entire document	1-15, 17-32, 35
 Y			16, 33-34, 36
Υ	US 2004/0087965 A1 (LEVINE et al) 06 May 2004 (06	.05.2004) entire document	16, 33-34
Υ	US 2005/0209672 A1 (GEORGE et al) 22 September 2005 (22.09.2005) entire document		36
	, , , ,	•	
Further documents are listed in the continuation of Box C.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand			
"E" earlier a	of particular relevance the principle or theory underlying the invention application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be		
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  "Y" document of noticinal relations of the publication date of another citation or other "Y" document of noticinal relations of the publication date.			
special "O" docume	al reason (as specified)  al reason (as specified)  ment referring to an oral disclosure, use, exhibition or other  al countrient of particular relevance, the challenge that the third document is combined with one or more other such documents, such combination		
	being obvious to a person skilled in the art ent published prior to the international filing date but later than "&" document member of the same patent family ority date claimed		
Date of the actual completion of the international search  Date of mailing of the international search report			
23 October 2007 0 3 DFC 2007			
Name and mailing address of the ISA/US  Authorized officer:			,
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450		Blaine R. Copenheaver	
	o. 571-273-3201	PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	