

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 November 2006 (23.11.2006)

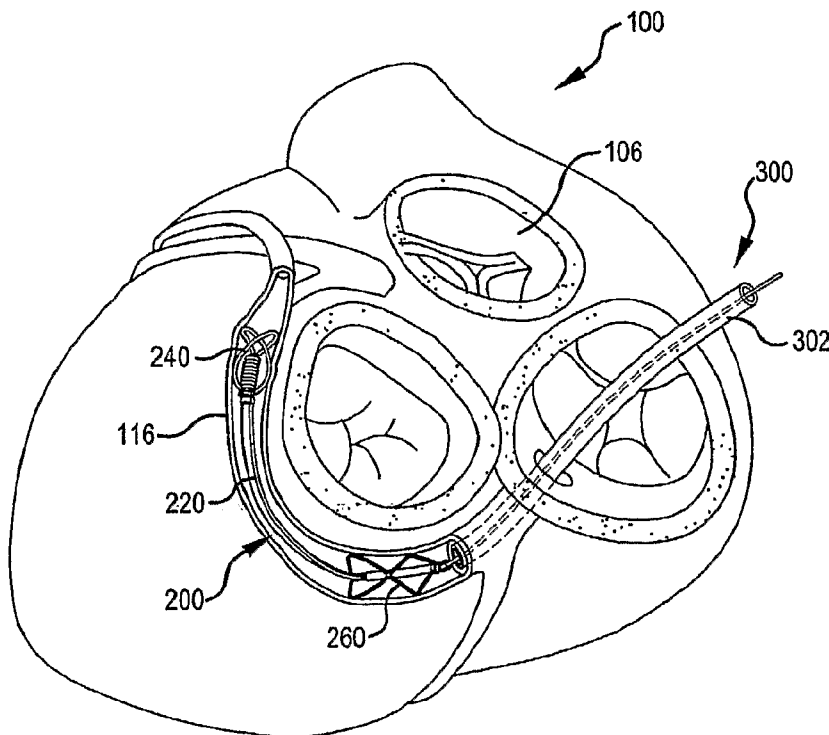
PCT

(10) International Publication Number
WO 2006/125120 A3

- (51) International Patent Classification:
A61F 2/24 (2006.01)
 - (21) International Application Number:
PCT/US2006/019328
 - (22) International Filing Date: 17 May 2006 (17.05.2006)
 - (25) Filing Language: English
 - (26) Publication Language: English
 - (30) Priority Data:
11/132,786 18 May 2005 (18.05.2005) US
 - (71) Applicant (for all designated States except US): **CARDIAC DIMENSIONS, INC.** [US/US]; 5540 Lake Washington Blvd. NE, Kirkland, WA 98033 (US).
 - (72) Inventors; and
 - (75) Inventors/Applicants (for US only): **MATHIS, Mark, L.** [US/US]; 44619 Parkmeadow Drive, Fremont, CA 94539 (US). **NIEMINEN, Gregory, D.** [US/US]; 20206 100th Avenue NE, Bothell, WA 98011 (US). **REUTER, David, G.** [US/US]; 3225 208th Place SE, Bothell, WA 98021 (US).
 - (74) Agents: **SHAY, James, R.** et al.; Wilson Sonsini Goodrich & Rosati, 650 Page Mill Road, Palo Alto, CA 94304-1050 (US).
 - (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, 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

[Continued on next page]

(54) Title: BODY LUMEN SHAPING DEVICE WITH CARDIAC LEADS



(57) Abstract: A shaping device and a cardiac lead, both adapted to be disposed in a coronary sinus of a patient's heart, are provided. In one method, a patient is treated by deploying in the patient's coronary sinus a shaping device and a cardiac lead and using the shaping device to modify mitral valve geometry.

WO 2006/125120 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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

26 April 2007

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 06/19328

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8): A61F 2/24 (2006.01)
USPC: 623/2.37
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)
USPC: 623/2.37

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 623/2.36, 623/1.11, 623/1.2, 623/1.22

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST: PGPB,USPT,USOC,EPAB,JPAB: heart, sinus, coronary sinus, lumen, shaping the valve, cardiac leads
SCHOLAR GOOGLE: heart, sinus, coronary sinus, lumen, shaping the valve, cardiac leads

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2004/0220654 A1 (MATHIS et al) 04 Nov 2004 (04.11.2004), Para [0005], [0006], [0062] & Fig 18	1, 2 ----- 3-9, 11-13
X --- Y	US 2004/0133240 A1 (ADAMS et al) 08 Jul 2004 (08.07.2004), abstract, entire document	10 ----- 4-9, 11-13
Y	US 2005/0027351 A1 (REUTER et al) 03 Feb 2005 (03.02.2005), Para [0075] & Fig 8-10	6-8
Y	US 6,721,598 B1 (HELLAND et al) 13 Apr 2004 (13.04.2004), col 2 ln 49-53; col 3 ln 2-8, ln 21-26	3, 9, 13

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 19 Dec 2006 (19.12.2006)	Date of mailing of the international search report 02 MAR 2007
---	--

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774
---	--