

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

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 May 2003 (08.05.2003)

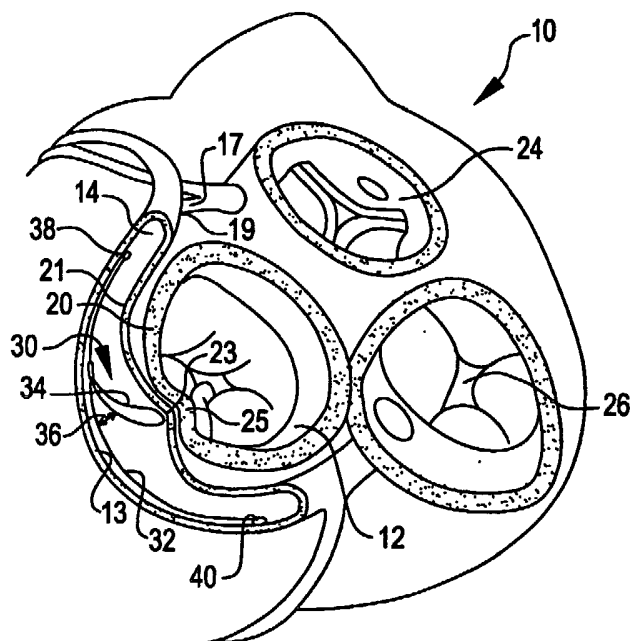
PCT

(10) International Publication Number
WO 03/037171 A3

- (51) International Patent Classification⁷: A61F 2/06
- (21) International Application Number: PCT/US02/35196
- (22) International Filing Date: 31 October 2002 (31.10.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
10/003,910 1 November 2001 (01.11.2001) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 10/003,910 (CON)
Filed on 1 November 2001 (01.11.2001)
- (71) Applicant (for all designated States except US): **CARDIAC DIMENSIONS, INC.** [US/US]; 5540 Lake Washington Blvd., Kirkland, WA 98033 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **ADAMS, John, M.** [US/US]; 20621 Southeast 34th Street, Sammamish, WA 98075 (US). **REUTER, David, G.** [US/US]; 3225 - 208th PI SE, Bothell, WA 98021 (US). **MATHIS, Mark, L.** [US/US]; 10624 Northeast 60th Street, Kirkland, WA 98033 (US). **WOLF, Scott, J.** [US/US]; 2722 98th Avenue, NE, Bellevue, WA 98004 (US).
- (74) Agents: **GRAY, Richard, O., Jr.** et al.; Graybeal Jackson Haley LLP, 155-108th Avenue Northeast, Suite 350, Bellevue, WA 98004-5901 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
20 November 2003

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.

(54) Title: FOCUSED COMPRESSION MITRAL VALVE DEVICE AND METHOD



(57) Abstract: A mitral valve therapy device and method treats dilated cardiomyopathy. The device is configured to be placed in the coronary sinus of a heart adjacent to the mitral valve annulus. The device includes a force distributor (32) that distributes an applied force along a pericardial wall of the coronary sinus, and a force applier (34) that applies the applied force to one or more discrete portions of a wall of the coronary sinus adjacent to the mitral valve annulus to reshape the mitral valve annulus in a localized manner.

WO 03/037171 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/35196

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61F 2/06
 US CL : 623/1.15

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)
 U.S. : 623/1.15,1.11,1.16,1.18,1.22; 607/16,17,18

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,210,432 B1 (Solem et al) 03 April 2001 (03.04.2001), see entire document.	1-14, 16-18, 43, 45, 46, 48-52, 54, 55, 57-62, 64, 65

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"
"A" document defining the general state of the art which is not considered to be of particular relevance	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 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
 09 April 2003 (09.04.2003)

Date of mailing of the international search report
 02 MAY 2003

Name and mailing address of the ISA/US
 Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231
 Facsimile No. (703)305-3230

Authorized officer
 Scott M. Getzow *Stavia Cadmus*
 Telephone No. (703) 308-0858 *js*