

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
7 December 2006 (07.12.2006)

PCT

(10) International Publication Number
WO 2006/130352 A3

- (51) International Patent Classification:
A61F 2/90 (2006.01)
- (21) International Application Number:
PCT/US2006/019293
- (22) International Filing Date: 18 May 2006 (18.05.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/140,401 27 May 2005 (27.05.2005) US
- (71) Applicant (for all designated States except US): BOSTON SCIENTIFIC SCIMED, INC. [US/US]; One Scimed Place, Maple Grove, Minnesota 55311-1566 (US).

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).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): STINSON, Jonathan S. [US/US]; 14815 4th Avenue N., Plymouth, Minnesota 55447 (US). CAMBRONNE, Matthew [US/US]; 5143 Long Lake Road, Mounds View, Minnesota 55112 (US).
- (74) Agents: GAGEL, John J. et al.; FISH & RICHARDSON P.C., P.o. Box 1022, Minneapolis, Minnesota 55440-1022 (US).

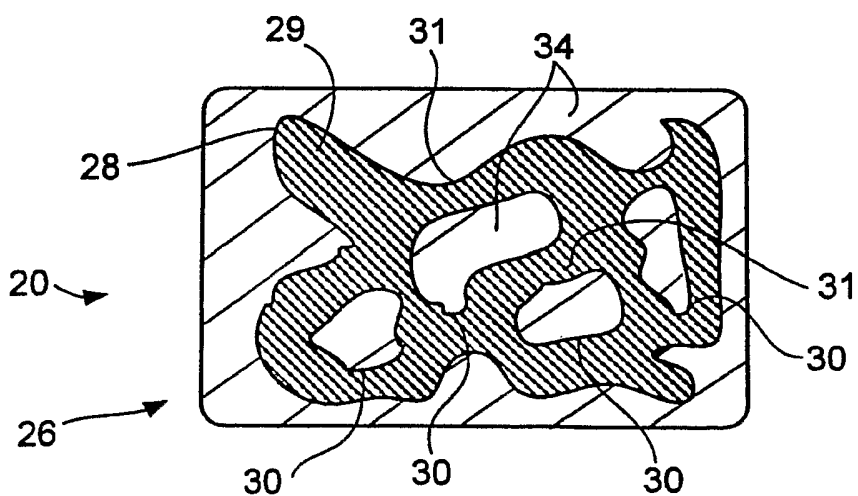
Published:
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
18 January 2007

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

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: MEDICAL DEVICES



(57) Abstract: Endoprostheses including composites, and methods of making the endoprosthesis, are disclosed. The composites include at least a first material and a second material having different chemical compositions from each other.

WO 2006/130352 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2006/019293

A. CLASSIFICATION OF SUBJECT MATTER INV. A61F2/90		
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) A61F A61L 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		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/197178 A1 (YAN JOHN Y [US]) 26 December 2002 (2002-12-26) paragraphs [0025], [0026], [0032], [0037] figures 2,3	1-60
X	US 2005/075408 A1 (RINGEISEN TIMOTHY A [US] ET AL) 7 April 2005 (2005-04-07) abstract paragraphs [0026] - [0031]	1-60
X	US 2003/060873 A1 (GERTNER MICHAEL E [US] ET AL) 27 March 2003 (2003-03-27) paragraph [0040]	1-60
	-/--	
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 cited 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 8 November 2006		Date of mailing of the international search report 20/11/2006
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Espuch, Antonio

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/019293

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/237282 A1 (HINES RICHARD A [US]) 2 December 2004 (2004-12-02) paragraphs [0021], [0022] figure 2a	1-60
X	US 2004/098089 A1 (WEBER JAN [US]) 20 May 2004 (2004-05-20) paragraphs [0023], [0024], [0035] figure 2a	1-60
X	US 6 364 902 B1 (DICKENSON ROGER C [US] ET AL) 2 April 2002 (2002-04-02) column 2, line 50 - column 3, line 20 figures 1-3	1-60
X	US 6 018 095 A (LERCH ALAIN [FR] ET AL) 25 January 2000 (2000-01-25) claim 1	1-60
X	WO 03/103736 A (SCIMED LIFE SYSTEMS INC [US]) 18 December 2003 (2003-12-18) page 3, line 25 - page 6, line 22 claim 1	1-60
X	WO 2004/045653 A2 (SYNECOR LLC [US]; WILLIAMS MICHAEL S [US]; HOLBROOK KEVIN D [US]; GLEN) 3 June 2004 (2004-06-03) page 17, line 15 - line 20 figure 15	1-60
P,X	WO 2006/041607 A (BOSTON SCIENT LTD [BB]; THISTLE ROBERT C [US]; DIMATTEO KRISTIAN [US]) 20 April 2006 (2006-04-20) page 16, line 21 - page 17, line 17 claim 1	1-60
A	WO 03/099168 A2 (SCIMED LIFE SYSTEMS INC [US]) 4 December 2003 (2003-12-04) figures 14A-G abstract	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2006/019293

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002197178	A1	26-12-2002	NONE	
US 2005075408	A1	07-04-2005	NONE	
US 2003060873	A1	27-03-2003	US 2005186250 A1 US 2005106212 A1	25-08-2005 19-05-2005
US 2004237282	A1	02-12-2004	AU 2003293557 A1 EP 1635985 A1 WO 2004108346 A1	04-01-2005 22-03-2006 16-12-2004
US 2004098089	A1	20-05-2004	AU 2003295763 A1 CA 2506622 A1 EP 1562519 A2 JP 2006506198 T WO 2004045464 A2	15-06-2004 03-06-2004 17-08-2005 23-02-2006 03-06-2004
US 6364902	B1	02-04-2002	NONE	
US 6018095	A	25-01-2000	AT 224742 T CN 1198682 A DE 69715824 D1 DE 69715824 T2 DK 881920 T3 EP 0881920 A1 ES 2183187 T3 FR 2749756 A1 WO 9747334 A1 JP 11510723 T PT 881920 T	15-10-2002 11-11-1998 31-10-2002 15-05-2003 30-12-2002 09-12-1998 16-03-2003 19-12-1997 18-12-1997 21-09-1999 31-12-2002
WO 03103736	A	18-12-2003	AU 2003229036 A1	22-12-2003
WO 2004045653	A2	03-06-2004	AU 2003290698 A1 CA 2506655 A1 EP 1567089 A2 JP 2006506208 T	15-06-2004 03-06-2004 31-08-2005 23-02-2006
WO 2006041607	A	20-04-2006	US 2006058867 A1	16-03-2006
WO 03099168	A2	04-12-2003	AU 2003230421 A1	12-12-2003