

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 February 2007 (08.02.2007)

PCT

(10) International Publication Number
WO 2007/015973 A3

(51) International Patent Classification:
A61F 2/28 (2006.01)

(21) International Application Number:
PCT/US2006/028451

(22) International Filing Date: 21 July 2006 (21.07.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/192,743 29 July 2005 (29.07.2005) US

(71) Applicant (for all designated States except US): **GORE ENTERPRISE HOLDINGS, INC.** [US/US]; 551 Paper Mill Road, P.O. Box 9206, Newark, DE 19714-9206 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DRUMHELLER, Paul, D.** [US/US]; 3217 S. Debbie St., Flagstaff, AZ 86001 (US). **FARNSWORTH, Ted, R.** [US/US]; 628 N. Pine Cliff Dr., Flagstaff, AZ 86001 (US). **FLYNN, Charles** [US/US]; 2600 N. Valley View Rd. #111, Flagstaff, AZ 86004 (US). **HAYES, Byron, K.** [US/US]; 908 W. Anderson Rd., Flagstaff, AZ 86001 (US). **WHITE, Charles, F.** [US/US]; 603 Azure Drive, Camp Verde, AZ 86322 (US).

(74) Agents: **BOLAND, Kevin, J.** et al.; W.L. Gore & Associates, Inc., 551 Paper Mill Road, P.O. Box 9206, Newark, DE 19714-9206 (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, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, 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, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, 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).

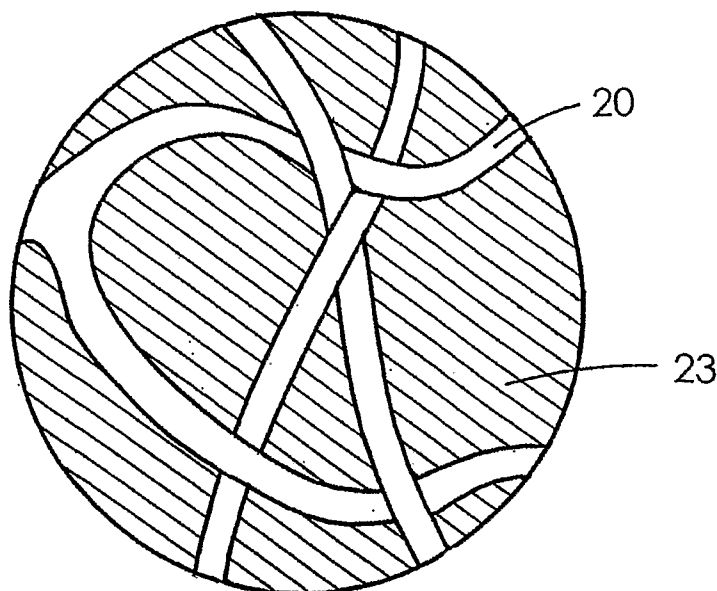
Published:

- with international search report
- 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:
19 April 2007

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: COMPOSITE SELF-COHERED WEB MATERIALS



(57) Abstract: The present invention is directed to implantable bioabsorbable non-woven self-cohered web materials having a high degree of porosity. The web materials are very supple and soft, while exhibiting proportionally increased mechanical strength in one or more directions. The web materials often possess a high degree of loft. The web materials can be formed into a variety of shapes and forms suitable for use as implantable medical devices or components thereof.

WO 2007/015973 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/28451

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 2/28 (2006.01)

USPC - 623/23.58

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 2/28, A61F 2/02, B28B 23/00, C0G8 63/08 (2006.01)

USPC - 623/11.11, 23.58; 428/36.4; 528/354

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)

USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent, IP.com, DialogPro

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --	US 6,309,423 B2 (HAYES) 30 October 2001 (30.10.2001) entire document	1-7, 10, 13, 16-17, 19-20, 22-23, 25, 28-29, 31-37, 40, 43, 46-47, 49-50
Y		8-9, 11-12, 14-15, 18, 21, 24, 26-27, 30, 38-39, 41-42, 44-45, 48, 51
Y	US 6,911,212 B2 (GERTZMAN et al) 28 June 2005 (28.06.2005) entire document	8, 11, 14, 26, 38, 41, 44
Y	US 6,902,729 B2 (PRESNELL et al) 07 June 2005 (07.06.2005) entire document	9, 12, 15, 27, 39, 42, 45
Y	US 6,918,929 B2 (UDIPI et al) 19 July 2005 (19.07.2005) entire document	18, 21, 24, 30, 48, 51

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 the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search
11 January 2007

Date of mailing of the international search report
16 FEB 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:
Blaine R. Copenheaver
PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774