(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 2 December 2004 (02.12.2004)

PCT

(10) International Publication Number $WO\ 2004/103414\ A3$

(51) International Patent Classification⁷: A61B 17/08

(21) International Application Number:

PCT/US2004/015146

(22) International Filing Date: 13 May 2004 (13.05.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/436,812 13 May 2003 (13.05.2003) US

(71) Applicant and

(72) Inventor: SHAYANI, Vafa [US/US]; 110 NORTH QUINCY STREET, HINSDALE, IL 60521 (US).

(74) Agents: CEPURITIS, Talivaldis et al.; OLSON & HI-ERL, LTD., 20 North Wacker Drive, 36th Floor, Chicago, IL 60606 (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, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

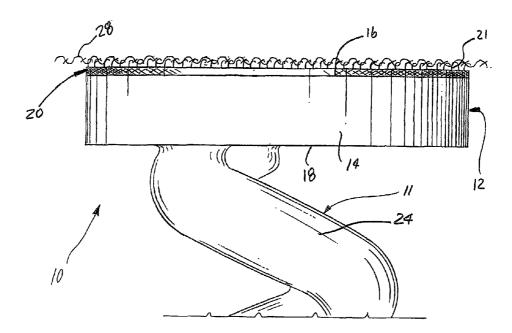
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, 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

[Continued on next page]

(54) Title: ARTICLE FOR POSITIONING MESH OVER TISSUE



(57) Abstract: An article of manufacture suitable for positioning a sheet of mesh material over tissue is described. In one embodiment, the article comprises a surgical tack having a hook-type material such as Velcro® material carried by the tack, e.g., secured to the top of the head thereof. A plurality of such tacks are positioned around the site of a hernia or the like and the mesh is positioned over the site and the tacks. The mesh is made of a loop-type Velcro® material or the like which allows the mesh to be releasably engaged and disengaged from the hook-type material carried by the tacks so that the mesh can be appropriately positioned over the tissue

(88) Date of publication of the international search report: 30 June 2005

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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/15146

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : A61B 17/08 US CL : 606/151, 213		
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.: 606/151, 213		
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.		
Category * Citation of document, with indication, where a	y * Citation of document, with indication, where appropriate, of the relevant passages	
Y US 6,036,701 A (ROSENMAN) 14 MARCH 2000,	US 6,036,701 A (ROSENMAN) 14 MARCH 2000, COL. 3, LINE 44 TO COL. 4, LINE 14.	
	US 5,972,022 A (HUXEL) 26 OCTOBER 1999, COL. 4, LINES 40-41.	
	See notes femily oppoy	
Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents:	"T" later document published after the in priority date and not in conflict with	the application but cited to
"A" document defining the general state of the art which is not considered to be of particular relevance	understand the principle or theory un	derlying the invention
•	"X" document of particular relevance; the	claimed invention cannot be
"E" earlier application or patent published on or after the international filing date	considered novel or cannot be considered novel or cannot be considered when the document is taken along	ie
"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 considered to involve an inventive st combined with one or more other sue combination being obvious to a personal particular succession of the contract of the contr	cp when the document is ch documents, such
"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	"&" document member of the same patent family	
Date of the actual completion of the international search	Date of mailing of the international search report	
25 April 2005 (25.04.2005)		
Name and mailing address of the ISA/US	Authorized officer	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Michael Thale	
P.O. Box 1450	Telephone No. 571-272-3700	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	J	

Form PCT/ISA/210 (second sheet) (January 2004)