(19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 11 March 2004 (11.03.2004)

PCT

US

(10) International Publication Number WO 2004/019762 A3

(51) International Patent Classification⁷: A61B 17/70

(21) International Application Number:

PCT/US2003/027109

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10/230,505 29 August 2002 (29.08.2002)

- (71) Applicant: ST. FRANCIS MEDICAL TECHNOLO-GIES, INC. [US/US]; 1900 Bates Avenue - Suite L, Concord, CA 94520 (US).
- (72) Inventors: ZUCHERMAN, James, F.; 3035 Pierce Street, San Francisco, CA 94123 (US). HSU, Ken, Y.; 52 Clarendon Avenue, San Francisco, CA 94114 (US). WINSLOW, Charles, J.; 25 Hilton Court, Walnut Creek, CA 94595 (US). FLYNN, John, J.; 1458 Santa Clara Avenue, Concord, CA 94519 (US).
- (74) Agent: MEYER, Sheldon, R.; Fliesler Meyer LLP, Four Embarcadero Center, Suite 400, San Francisco, CA 94111-4156 (US).

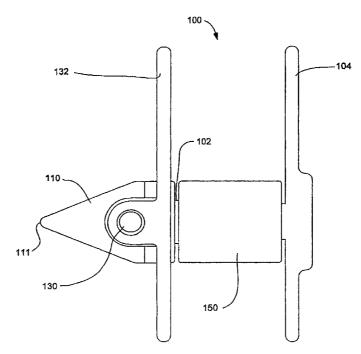
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, 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, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, 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
- 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: 1 July 2004

[Continued on next page]

(54) Title: DEFLECTABLE SPACER FOR USE AS AN INTERSPINOUS PROCESS IMPLANT AND METHOD



(57) Abstract: The present invention is a interspinous process device (100) with a deflectable spacer (150, 250, 350, 450, 550) which can be placed between adjacent spinous processes to limit the movement of the vertebrae. The device limits the range of motion of the spinous processes.





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 application No.

INTERNATIONAL SEARCH REPORT PCT/US03/27109 CLASSIFICATION OF SUBJECT MATTER IPC(7) A61B 17/70 : US CL 606/61 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 606/60, 61; 623/17.11, 17.15, 17.16 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) Please See Continuation Sheet DOCUMENTS CONSIDERED TO BE RELEVANT C. Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 4,878,915 A (BRANTIGAN) 07 November 1989 (07.11.1989), See Figs. 10-11 and col. X 1, 4, 7, 12, 16, 19, 25, 6, lines 52-58. 30, 31, 36, 37, 39, 48, Y 54, 60-62, 68, 74, 86, 87 13, 28, 40, 41, 45, 46 US 5,390,683 A (PISHARODI) 21 February 1995 (21.02.1995), See Figs. 5-6 and col. 4, Х 1, 3, 7, 68 line 50-col. 5, line 7. 13, 45 Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: later document published after the international filing date or priority "T" date and not in conflict with the application but cited to understand the "A" document defining the general state of the art which is not considered to be principle or theory underlying the invention of particular relevance 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 to involve an inventive step when the document is taken alone 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 document of particular relevance; the claimed invention cannot be specified) considered to involve an inventive step when the document is combined with one or more other such documents, such combination document referring to an oral disclosure, use, exhibition or other means being obvious to a person skilled in the art document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed Date of the actual completion of the international search Date of mailing of the international 25 March 2004 (25.03.2004) Name and mailing address of the ISA/US Authorized officer Mail Stop PCT, Attn: ISA/US David Reip Commissioner for Patents P.O. Box 1450

Telephone No. 703-308-0858

Facsimile No. (703)305-3230

Alexandria, Virginia 22313-1450

Continuation of B. FIELDS SEARCHED Item 3: EAST sesrch terms: spinous, process, spacer, implant
EAST
EAST sesrch terms: spinous, process, spacer, implant
sesrch terms: spinous, process, spacer, implant
Form PCT/ISA/210 (second sheet) (July 1998)