${\bf (19)}\ World\ Intellectual\ Property\ Organization$

International Bureau





(43) International Publication Date 2 May 2008 (02.05.2008) (10) International Publication Number WO 2008/051745 A3

- (51) International Patent Classification: *A61B 17/70* (2006.01) *A61B 17/86* (2006.01)
- (21) International Application Number:

PCT/US2007/081385

- (22) International Filing Date: 15 October 2007 (15.10.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:

11/585,387 24 October 2006 (24.10.2006) US

- (71) Applicant (for all designated States except US): WAR-SAW ORTHOPEDIC, INC. [US/US]; 2500 Silveus Crossing, Warsaw, Indiana 46581 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): FERGUSON, Joe, W. [US/US]; 3396 Fallen Woods Cove, Collierville, Tennessee 38017 (US).
- (74) Agents: WILLIS, Thomas L. Jr. et al.; 710 Medtronic Parkway MS LC340, Minneapolis, Minnesota 55432 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

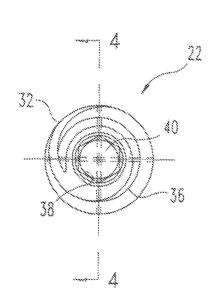
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT,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

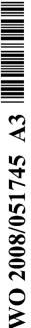
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report:

12 June 2008

(54) Title: ADJUSTABLE JACKING IMPLANT



(57) Abstract: An adjustable jacking implant useful in orthopedic surgery and associated methods are disclosed. The implant may be used to adjust the position of bones or other structures with respect to one another. In one embodiment, the implant may include a jack base, a jacking segment and a compressible spacer or sleeve. The implant may be inserted through a single stab or puncture entry. Jack base is placed in a first portion of a vertebra via a hole in an adjacent vertebra, in one embodiment, and the jacking segment is placed in the adjacent vertebra and connected to the base. After being connected, the depth of the adjustable portion of jacking segment in its vertebra determines the spacing between portions of the adjacent vertebrae.



INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/081385

A. CLASSIFICATION OF SUBJECT MATTER INV. A61B17/70 A61B A61B17/86 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) 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 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X WO 2006/110443 A (MOSKOWITZ MOSHEH [US]; 1,2,12 MOSKOWITZ NATHAN [US]) 19 October 2006 (2006-10-19) Α paragraph [0031] - paragraph [0035]; 3-11.figures 1-3 13-18 X WO 2006/110738 A (ALPHASPINE INC [US]) 1,6,10, 19 October 2006 (2006-10-19) 11 A paragraph [0061] - paragraph [0063]: 12 figures 8-13 WO 2004/069031 A (KINETIKOS MEDICAL INC Х [US]; REINDEL ERIC S [US]; TRAIL IAN A [GB]; WEI) 19 August 2004 (2004-08-19) abstract; figures 1,2 12 US 4 554 914 A (KAPP JOHN P [US] ET AL) 1 - 1826 November 1985 (1985-11-26) the whole document χ 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 international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date 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) 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 "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international fifing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 10 April 2008 21/04/2008 Name and mailing address of the ISA/ Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Hansen, Soren Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2007/081385

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 2006110443	Α	19-10-2006	US	2006241621	A1	26-10-2006
WO 2006110738	A	19-10-2006	AU CA EP US	2006235414 2604888 1865860 2006264954	A1 A2	19-10-2006 19-10-2006 19-12-2007 23-11-2006
WO 2004069031	A	19-08-2004	EP US	1594411 2004210227		16-11-2005 21-10-2004
US 4554914	A	26-11-1985	NONE	<i>و</i> ہیں — اند بھا سے وال جیا سا کا سے اللہ		