## (19) World Intellectual Property Organization

International Bureau





(10) International Publication Number

WO 2008/019049 A3

14 February 2008 (14.02.2008)

(43) International Publication Date

(51) International Patent Classification: A61F 2/00 (2006.01)

(21) International Application Number:

PCT/US2007/017318

**(22) International Filing Date:** 3 August 2007 (03.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

i i ioi ity Data.		
60/835,268	3 August 2006 (03.08.2006)	US
60/835,269	3 August 2006 (03.08.2006)	US
60/835,292	3 August 2006 (03.08.2006)	US
60/847,527	27 September 2006 (27.09.2006)	US
60/860,595	22 November 2006 (22.11.2006)	US
11/607,321	1 December 2006 (01.12.2006)	US
11/644,218	22 December 2006 (22.12.2006)	US
11/888,719	2 August 2007 (02.08.2007)	US

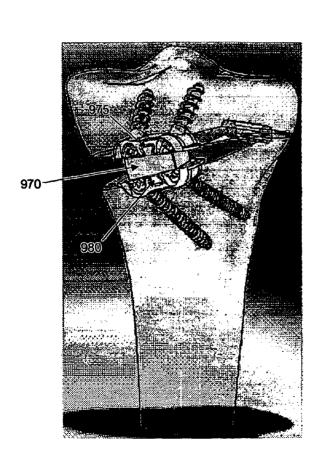
(71) Applicant (for all designated States except US): IBAL-ANCE MEDICAL INC. [US/US]: 4900 Nautilus Ct. Ste.100, Boulder, CO 80301 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): AMMANN, Kelly, G. [US/US]; 2335 Panorama Avenue, Boulder, CO 80304 (US). NOVACK, Vincent, P. [US/US]; 2013 Coralbells Court, Longmont, CO 80503 (US). SCHNEIDER, Robert, E. [US/US]; 2777 Hugh Drive, Erie, CO 80516 (US). TABER, Justin, R. [US/US]; 5113 Williams Fork Trail, Apt. 120, Boulder, CO 80301 (US). RINDAL, **Bjorn, N.** [US/US]; 2130 W.10th Avenue, Apt 204, Broomfield, CO 80020 (US).
- (74) Agent: SLEZAK, Margaret, M.; Pandiscio & Pandiscio, 470 Totten Pond Road, Waltham, MA 02451 (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,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PERFORMING AN OPEN WEDGE, HIGH TIBIAL OSTEOTOMY



(57) Abstract: Apparatus for performing an open wedge, high having a two-piece bearing implant having an upper bearing member and a lower bearing member. wherein the upper bearing member comprises a screw hole for securing the upper bearing member to an upper portion of bone, and the lower bearing member comprises a screw hole for securing the lower bearing member to a lower portion of bone, and further wherein the upper bearing member comprises an upper dovetail track and the lower bearing member comprises a lower dovetail track; and a wedge comprising an upper dovetail rail which is complementary to the upper dovetail track and a lower dovetail rail which is complementary to the lower dovetail track, in order that the wedge can be introduced, in a controlled fashion, between the upper bearing member and the lower bearing member, so as to open a wedge-like opening between the upper bearing member and the lower bearing member.

## WO 2008/019049 A3



$$\label{eq:total_total_total} \begin{split} & \text{TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA,} \\ & \text{ZM, ZW.} \end{split}$$

(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: 3 April 2008

## INTERNATIONAL SEARCH REPORT

International application No. PCT/US07/17318

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - A61F 2/00 (2007.10)					
USPC - 606/88 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 2/00 (2007.10) USPC - 606/54, 60-68, 72-75, 86-88; 623/17.11-17.16					
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)  MicroPatent					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.		
X	US 2005/0273114 A1 (NOVAK) 08 December 2005 (0	1-8			
Α	US 2005/0075641 A1 (SINGHATAT et al) 07 April 200	1-8			
Α	US 2005/0251147 A1 (NOVAK) 10 November 2005 (10.11.2005) entire document		1-8		
	·				
Furthe	er documents are listed in the continuation of Box C.				
Special categories of cited documents:     document defining the general state of the art which is not considered to be of particular relevance		"T" later document published after the inter date and not in conflict with the applic the principle or theory underlying the	ation but cited to understand		
	application or patent but published on or after the international	"X" document of particular relevance; the considered novel or cannot be consid	claimed invention cannot be		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other		step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be			
special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive combined with one or more other such being obvious to a person skilled in th	documents, such combination		
"P" document published prior to the international filing 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			
26 December 2007		23 JA	N 2008		
Name and mailing address of the ISA/US		Authorized officer:			
Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450		Blaine R. Copenheaver			
Facsimile No. 571-273-3201		PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774			