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(71) Applicant *(for all designated States except US)*: **4-WEB, INC.** [US/US]; 6170 Research Road, Suite 219, Frisco, TX 75033 (US).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **HUNT, Jessee** [US/US]; 6629 Whispering Woods Court, Plano, TX 75024 (US).

(74) Agent: **MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C.**; DELUCA, Mark R., P.O. Box 398, Austin, TX 78767-0398 (US).

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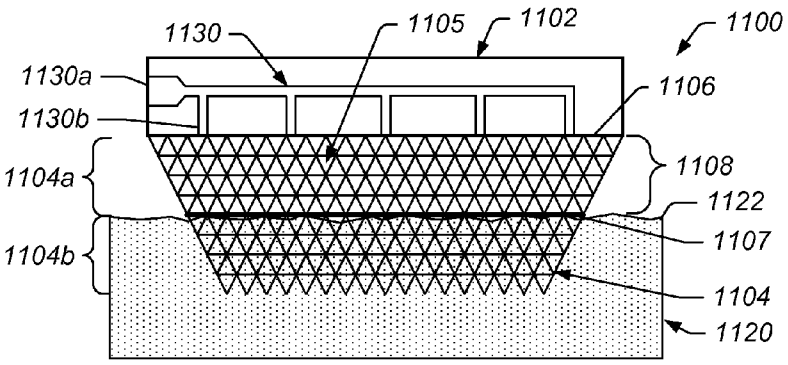
Published:

— *with international search report (Art. 21(3))*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(88) Date of publication of the international search report:
2 May 2013

(54) Title: IMPLANT INTERFACE SYSTEM AND METHOD



(57) Abstract: An orthopedic implant having an implant body including a bone interface surface having a bone interface structure protruding therefrom. The bone interface structure includes a proximal portion of the bone interface structure adjacent the bone interface surface and a distal portion of the bone interface structure extending from the proximal portion of the bone interface structure, wherein the distal portion of the bone interface structure configured to be disposed at least partially into a bone structure during use.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/048300

A. CLASSIFICATION OF SUBJECT MATTER

A61F 2/30(2006.01)i, A61F 2/28(2006.01)i, A61F 2/38(2006.01)i

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)
A61F 2/30; A61F 2/28; A61F 2/36; A61F 2/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords:orthopedic implant, bone interface surface, bone interface structure, protruding

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2010-0161061 A1 (HUNT, JESSEE) 24 June 2010 See abstract, claims 45,47-49,52,53, paragraphs [0016],[0051],[0054],[0076],[0098]-[0104], figs.1A-6D,18-24	1,3,4,6,10,11,50 2,5,7-9,12-15,34-49
X A	US 2007-0270956 A1 (HEINZ, ERIC S.) 22 November 2007 See abstract, claims 1,2,14, figs.1-4	50 1-15,34-49
A	US 2010-0298950 A1 (MCDONNELL, PATRICK et al.) 25 November 2010 See abstract, claim 1, figs.1-11(b)	1-15,34-50
A	US 05433750 A (GRADINGER, RAINER et al.) 18 July 1995 See abstract, claim 1, figs.1-3	1-15,34-50
A	US 06149689 A (GRUNDEI, HANS) 21 November 2000 See abstract, claim 1, figs.1-3	1-15,34-50

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
"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
"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
"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
"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
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
28 FEBRUARY 2013 (28.02.2013)	**04 MARCH 2013 (04.03.2013)**

Name and mailing address of the ISA/KR
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon Metropolitan City, 302-701, Republic of Korea
Facsimile No. 82-42-472-7140

Authorized officer
KANG, Sung Hyun
Telephone No. 82-42-481-8160

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/048300

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16-33
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 16 to 33 pertain to methods for treatment of the human body by therapy, as well as diagnostic, and thus relate to a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required addtional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2012/048300

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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