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(71) Applicant: **WRIGHT MEDICAL TECHNOLOGY, INC.** [US/US]; 1023 Cherry Road, Memphis, TN 381 17 (US).

(72) Inventor: **SANDER, Elizabeth;** 851 Creekside Drive, Apt. 2, Memphis, TN 381 17 (US).

(74) Agents: **APICELLI, Samuel W.** et al; Duane Morris LLP, 30 South 17th Street, Philadelphia, PA 19103 (US).

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Published:

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

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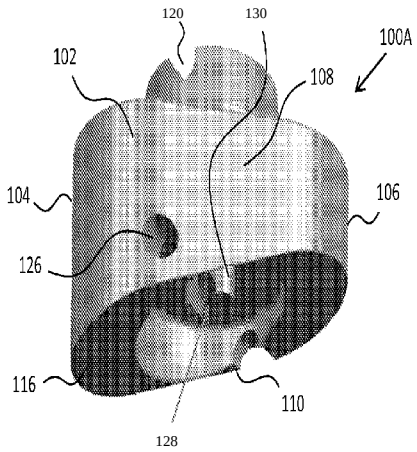


FIG. 1A

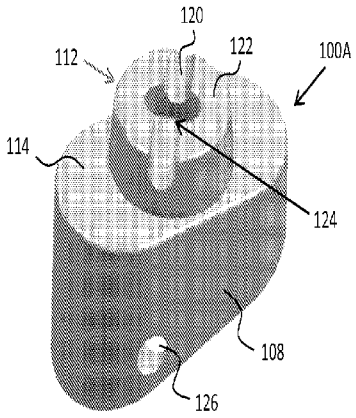


FIG. I B

(57) Abstract: In some embodiments, a surgical method includes creating an incision in a patient, exposing a multi-component prosthesis implanted in a patient, disassembling at least one component of the multi-component prosthesis, and coupling a first revision implant component to a first component of the multi-component prosthesis. The revision implant component has a body including at least one of a projection or an opening that is complementary to a feature of the first component of the multi-component prosthesis for coupling the revision implant component to the first component of the multi-component prosthesis.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/031713

A. CLASSIFICATION OF SUBJECT MATTER

A61B 17/56(2006.01)i, A61B 17/88(2006.01)i, A61F 2/28(2006.01)i, A61F 2/46(2006.01)i, A61F 2/30(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)
A61B 17/56; A61F 2/36; A61F 2/34; A61F 2/44; A61B 17/16; A61B 17/58; A61F 2/32; A61B 17/88; A61F 2/28; A61F 2/46; A61F 2/30

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: revision implant, prosthesis, multi-component prosthesis, orthopedic implant

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008-0119934 A1 (ECKHARDT, JASON) 22 May 2008 See figures 3-6; paragraphs [0028] .	13-15, 20
A		16-19
X	US 2012-0259338 A1 (CARR, JONATHAN E. et al.) 11 October 2012 See figures 2 and 57; paragraphs [0095] and [0182] .	13,20
A		14-19
X	US 6139584 A (OCHOA, JORGE A. et al.) 31 October 2000 See claim 1; figures 1-2; abstract .	13,20
A		14-19
A	WO 2007-082810 A2 (DOT GMBH) 26 July 2007 See abstract .	13-20
A	WO 2011-146617 A2 (SMITH & NEPHEW, INC.) 24 November 2011 See claim 1.	13-20

☐ 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 another 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
15 September 2014 (15.09.20H)	**16 September 2014 (16.09.2014)**

Name and mailing address of the ISA/KR
International Application Division
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
Han, Into
Telephone No. +82-42-481-3362

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2014/031713

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.: 1-12
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 1-12 pertain to a method for treatment of the human by surgery, and thus relate to a subject matter which this International Searching Authority is not required, under PCT Article 17(2)(a)(i) andPCT Rule 39. l(iv), 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. Ill 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 fees, this Authority did not invite payment of any additional fees.

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

Infomiation on patent family members

International application No.
PCT/US2014/031713

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