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[Continued on next page]

(54) Title: A SPINAL ROD TRANSLATION DEVICE

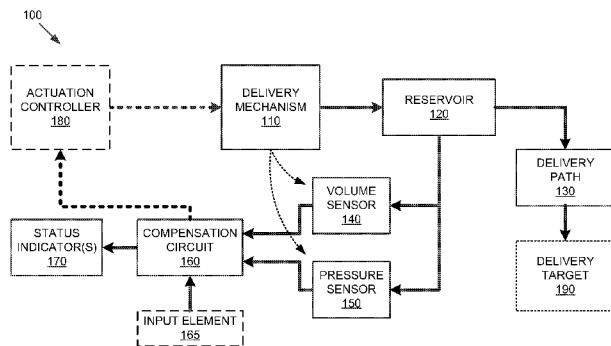


FIG. 1A

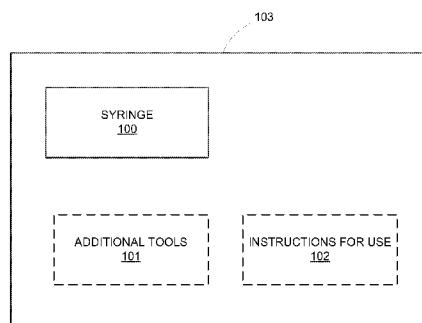


FIG. 1B

(57) Abstract: A rod translation device is described that minimizes the wear between a spinal rod and a bone anchor in a spinal implant. In one embodiment, the rod translation device is a sleeve that is slid onto the outside diameter of the spinal rod. At least one compressible member, such as an O-ring, may be placed within the inside diameter of the sleeve to prevent direct contact of the outside diameter of the spinal rod to the inside diameter of the sleeve. Once the spinal rod is secured within the implant any translation of the spinal rod decreases wear debris between the outside diameter of the spinal rod and the pedicle screw.



MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

— 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))

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER***A61B 17/70(2006.01)i, A61B 17/56(2006.01)i, A61F 2/44(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 17/70; A61F 2/44; A61B 17/60; A61B 17/00; A61F 5/00; A61B 17/56

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: spinal rod, translation, spinal fixation, cannulated cylinder, compressible member

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2008-0097449 A1 (TRIEU HAI H. et al.) 24 April 2008 See paragraphs 38-39, 42, 44, figs.1-6	1-12, 15
A	US 6607544 B1 (BOUCHER; RYAN P et al.) 19 August 2003 See figs. 3, 6, 9, 10, col. 3 line 14-64, col.12 line 64-col. 13 line 21	1-12, 15
A	US 2004-0006341 A1 (SAMUEL, M. SHAOlian et al.) 08 January 2004 See figs.1, 18-30, claim 1, paragraphs 67-69	1-12, 15
A	US 2002-0143343 A1 (SALVATORE CASTRO) 03 October 2002 See abstract, paragraphs 40-42	1-12, 15
A	US 2008-0154305 A1 (FOLEY KEVIN T. et al.) 26 June 2008 See figs. 3a-9, 14, 16a, paragraphs 54, 55, 76	1-12, 15

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

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- "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
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- "&" document member of the same patent family

Date of the actual completion of the international search
 29 OCTOBER 2010 (29.10.2010)

Date of mailing of the international search report

29 OCTOBER 2010 (29.10.2010)

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 Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea
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Authorized officer

OH Seung Jae

Telephone No. 82-42-481-8469



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2010/030575**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.: 13-14
because they relate to subject matter not required to be searched by this Authority, namely:
The subject matter of claim 13 is directed to a method for spinal rod translation with respect to a bone anchor, this method falls into the category of a method for treatment of the human body by surgery, therapy or diagnostic methods. The same reasoning applies to claim 14, which is dependent on claim 13 [Article 17(2)(a)(i), Rule 39.1(iv) PCT].
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 additional 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.

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