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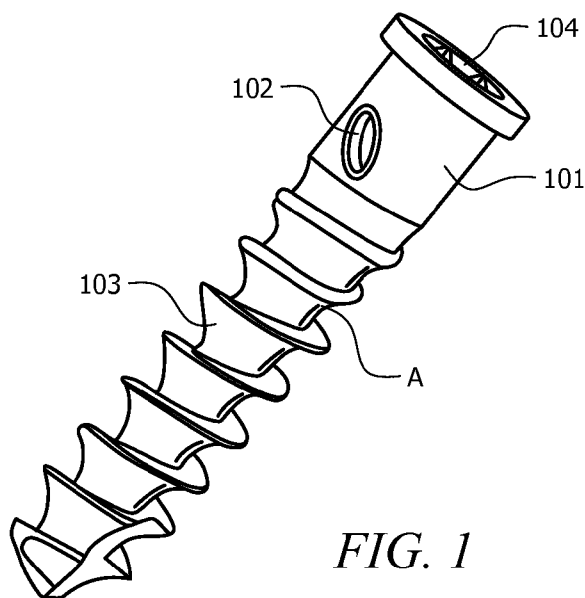
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(54) Title: UNIVERSAL ANCHOR FOR ATTACHING OBJECTS TO BONE TISSUE



(57) Abstract: An anchoring device and method for attaching an object to a bone comprises an anchoring member having proximal and distal ends, with the proximal end being adapted to hold the object to the bone while the distal end is in the bone, and a locking member having proximal and distal ends, with the proximal end adapted to secure the anchoring member into the bone and oppose its pull-out or loosening by stopping its backing or preventing its unscrewing while the distal end is in the bone. Also provided are first and second fasteners, with the first fastener adapted to fit to the proximal end of the anchoring member, and the second fastener adapted to fit to the proximal end of the locking member. The end of the second fastener can have an angle that matches an angle of the locking member.

FIG. 1



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/038376**A. CLASSIFICATION OF SUBJECT MATTER****A61B 17/58(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
IPC A61BDocumentation 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 since 1975
Japanese Utility models and applications for Utility models since 1975Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KPA, PAJ, FPD, USPATFULL) in KIPO, CA online & keywords: bone anchor, screw, fastener, locking mechanism, oblique aperture**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 2006-0052787 A1 (RE et al.) 09 March 2006 See the abstract; paragraphs [0114],[0115],[0132],[0133]; claims 6, 7, 31; figures 41, 52A, 52B, 52D, 53-56	1-3, 5, 6, 12, 13, 15 4, 7-11
X A	US 2006-0189991 A1 (BICKLEY et al.) 24 August 2006 See the abstract; paragraphs [0029],[0030],[0032],[0039],[0044],[0045]; claims 1, 22, 26, 35-39; figures 1-3, 3A, 4, 4A, 5, 7, 7A	1, 2, 5, 6, 12, 13, 15 3, 4, 7-11
A	US 5425767 A (STEININGER et al.) 20 June 1995 See the abstract; column 2, lines 46-68; column 3, lines 5-11; column 3, lines 24-26; claims 1, 3, 9; figures 1, 2	1-13, 15
A	EP 0330328 A1 (PFIZER HOSPITAL PRODUCTS GROUP, INC.) 30 August 1989 See the abstract; column 1, lines 17-24; column 1, lines 51-54; column 3, line 53 - column 4, line 9; column 7, lines 51-54; figures 3, 8, 11, 12	1-13, 15
A	US 2003-0199876 A1 (BRACE et al.) 23 October 2003 See the abstract; paragraphs [0002],[0012],[0030],[0032]; claim 1; figures 6, 9-12	1-13, 15
A	US 2003-0171753 A1 (COLLINS et al.) 11 September 2003 See the abstract; paragraphs [0010],[0012],[0015],[0018]; claims 1, 2, 4; figures 1-3	1-13, 15

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

* Special categories of cited documents:

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"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

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2009/038376**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.: 14
because they relate to subject matter not required to be searched by this Authority, namely:
Claim 14 pertains to a method for treatment of human by surgery, and thus relates 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 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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

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