Title: MECHANICAL DISTRACTOR TO FACILITATE SURGERY AND EVALUATION OF JOINTS

Abstract: A medical apparatus having a tensioning device secured to a fixed point; a wire or pin inserted transversely through a bone; and a tension line connecting the tensioning device to the wire or pin. The tension line transmits a force from the tensioning device to the wire or pin to facilitate distraction of a joint of a subject.
ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI
(BF, BJ, CF, BO, CI, OM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(k))

(88) Date of publication of the international search report:
24 September 2009
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

A61F 5/04(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)

IPC A61F 5/04, A61H 1/02, A61H 1/00, A61B 19/00, A61B 19/08

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)

KOMPASS (KIPO internal) & keywords wire, yoke, traction, bone, distraction, tension, drape, surgical, and adhesive

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No</th>
</tr>
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<tbody>
<tr>
<td>X</td>
<td>US 5,669,908 A (GRACILLA, R V ) 23 September 1997 See abstract, c 1, 36-45, c 2, 1 3-e 3, 5 55, claims 1-9, Figs 1 and 5</td>
<td>1, 6, 8-16</td>
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<td>Y</td>
<td>US 4,538,598 A (GILL, G G et al ) 03 September 1985 See abstract, c 2, 1 50-c 3, 1 12, Fig 1</td>
<td>2-5</td>
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<td>A</td>
<td>US 5,063,918 A (GUHL, J F ) 12 November 1991 See abstract, c 5, 6-41, Figs 1 and 3</td>
<td>1, 6-19</td>
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<tr>
<td>X</td>
<td>US 5,643,186 A (CHINCHALKAR, S J ) 01 July 1997 See abstract, c 2, 1 58-e 3, 1 57, claims 1, 6, Fig 1</td>
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<td>Y</td>
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<td>A</td>
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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 20 AUGUST 2009 (20 08 2009)

Date of mailing of the international search report 21 AUGUST 2009 (21.08.2009)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office

Government Complex-Daejeon, 139 Seomsa-ro, Seo-gu Daejeon 302-701, Republic of Korea

Facsimile No 82-42-472-7140

Authorized officer KIM Sang Woo

Telephone No 82-42-481-8384

Form PCT/ISA/210 (second sheet) (My 2008)
INTERNATIONAL SEARCH REPORT

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 because they relate to subject matter not required to be searched by this Authority, namely

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 64(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

This ISA found multiple inventions as follows
Group I, claims 1-16 are directed to a medical device comprising a tensioning device, a wire or pin and a tension line
Group II, claims 17-19 are directed to a surgical drape comprising a cut-out surgical field, a first and a second face and an adhesive region

The inventions between Groups I and Group II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2 they lack the same or corresponding special technical features for the following reasons, they are separate inventions with distinct fields of search

1  [x] 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

Form PCT/ISA/210 (continuation of first sheet (2)) (July 2008)
### DOCUMENTS CONSIDERED TO BE RELEVANT

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<td>X</td>
<td>US 5,209,243 A (GLASSMAN, J A ) 11 May 1993&lt;br&gt;See abstract, c 3, 1 43-c 4, I 25, c 5, () 20-34, Figs 1-3</td>
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<td>A</td>
<td>US 4,974,604 A (MORRIS, H K ) 04 December 1990&lt;br&gt;See the whole document</td>
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<td>US 5669908 A</td>
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<td>US 4538598 A</td>
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<td>US 5643186 A</td>
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<td>US 5209243 A</td>
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<td>04.12.1990</td>
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