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KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD,
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(54) Title: SURGICAL STAPLE WITH LOCALIZED ADJUNCT COATING

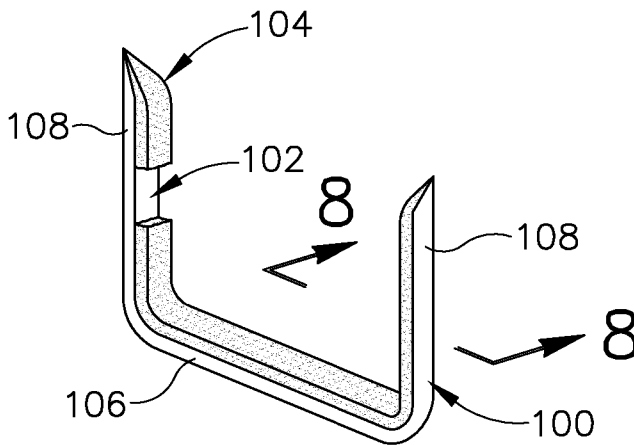
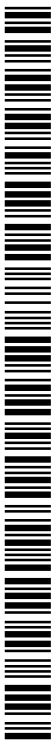


Fig. 7

(57) Abstract: A medical fastener(100) has a first, pre-deployment shape for loading into a surgical instrument, and a second, post-deployment shape for connecting tissue together, and includes a crown (106) and a pair of legs(108), each leg substantially transversely extending from a respective end of the crown in the first, pre-deployment shape. A coating (104), such as a hemostatic agent, is applied to a fastener interior surface (102) defined by interior surfaces of the crown and the pair of legs.





UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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— *with international search report (Art. 21(3))*
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Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

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INTERNATIONAL SEARCH REPORT

International application No PCT/US2012/050226

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61B17/064
 ADD.

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

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)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/064785 A1 (DANIELS R HUGH [US] ET AL) 17 March 2011 (2011-03-17) paragraph [0180] - paragraph [0192]; figures 33-37 -----	1-15,20
X	US 6 015 417 A (REYNOLDS JR WALKER [US]) 18 January 2000 (2000-01-18) the whole document -----	1-3, 11-15,20
Y	US 2004/254608 A1 (HUITEMA THOMAS W [US] ET AL) 16 December 2004 (2004-12-16) paragraph [0041] -----	16-19
Y	US 6 805 898 B1 (WU STEVEN Z [US] ET AL) 19 October 2004 (2004-10-19) paragraph [0050] -----	16-19

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

* Special categories of cited documents :

- | | |
|---|---|
| <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> | <p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p> |
|---|---|

Date of the actual completion of the international search

5 February 2013

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/US2012/050226

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011064785 A1	17-03-2011	CN 102791259 A	21-11-2012
		EP 2544670 A1	16-01-2013
		TW 201141547 A	01-12-2011
		US 2011064785 A1	17-03-2011
		WO 2011112364 A1	15-09-2011

US 6015417 A	18-01-2000	NONE	

US 2004254608 A1	16-12-2004	NONE	

US 6805898 B1	19-10-2004	US 6805898 B1	19-10-2004
		US 2005033411 A1	10-02-2005
		US 2005033412 A1	10-02-2005

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/050226

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 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:

see additional sheet

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 fees, this Authority did not invite payment of 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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15, 20

Device claims

2. claims: 16-19

Method of manufacture claims
