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AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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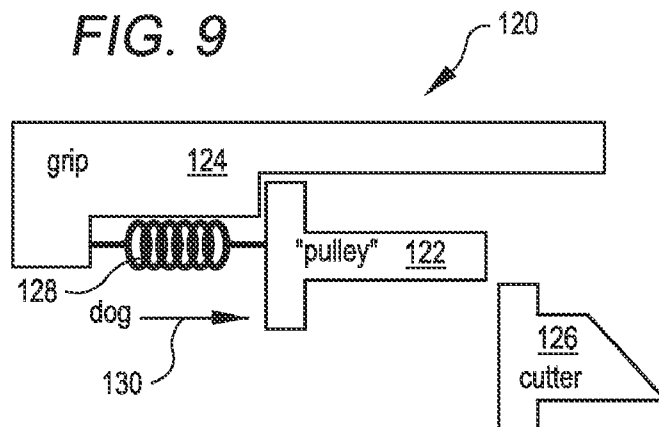
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- (88) Date of publication of the international search report:
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(54) Title: SURGICAL INSTRUMENT WITH SINGLE DRIVE INPUT FOR TWO END EFFECTOR MECHANISMS

FIG. 9



(57) Abstract: Methods for treating tissue, and surgical assemblies and related methods are disclosed in which a single input is used to sequentially articulate two members. A surgical assembly includes an end effector, a base supporting the end effector, an input link movable relative to the base through a range of motion between a first configuration and a second configuration, and an actuation mechanism. The end effector includes a first articulated member and a second articulated member. The actuation mechanism drivingly couples the input link to the first articulated member within a first portion of the range of motion and drivingly coupling the input link with the second articulated member within a second portion of the range of motion so that a movement of the input link from the first configuration to the second configuration articulates the first articulated member and then articulates the second articulated member.



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/040037

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61B17/295
 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 2007/043352 A1 (GARRISON DAVID M [US] ET AL) 22 February 2007 (2007-02-22) paragraphs [0064], [0069], [0077], [0078], [0094] - [0096] -----	1-3,8,9, 29-31
X	US 5 383 880 A (HOOVEN MICHAEL D [US]) 24 January 1995 (1995-01-24) column 5, line 22 - column 6, line 44 -----	1-3

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 4 October 2012	Date of mailing of the international search report 10/01/2013
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Angeli, Markus
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/040037

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.: 17-28
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery
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.:
1-9, 29-31

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: 1-9, 29-31

Surgical assembly with an input link directed to a spring to at least partially decouple motion of the jaw from motion of the cutter.

2. claims: 10-16

Surgical assembly with an input link directed to a cam surface for inhibiting driving of the cutter during the first portion of the range of motion and to drive the cutter during the second portion of the range of motion.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/040037

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2007043352	A1	22-02-2007	US 2007043352 A1
			US 2010130977 A1

US 5383880	A	24-01-1995	AT 192639 T
			AU 670051 B2
			CA 2087221 A1
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			DE 69328576 T2
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			ES 2146216 T3
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