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<i>A61F 2/82</i> (2013.01)		62/649,333	28 March 2018 (28.03.2018)	US
(21) International Application Number:		62/650,887	30 March 2018 (30.03.2018)	US
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(22) International Filing Date:		62/807,310	19 February 2019 (19.02.2019)	US
	27 March 2019 (27.03.2019)	62/807,319	19 February 2019 (19.02.2019)	US
		16/281,741	21 February 2019 (21.02.2019)	US
(25) Filing Language:	English	(71) Applicant: ETHICON LLC [US/US]; #475 Street C, Suite 401, Los Frailes Industrial Park, Guaynabo 00969 (PR).		
(26) Publication Language:	English	(72) Inventors: SHELTON, Frederick E. IV ; 4545 Creek Road, Cincinnati, OH 45242 (US). HARRIS, Jason L. ; 4545 Creek Road, Cincinnati, OH 45242 (US). BAKOS, Gregory J. ; 4545 Creek Road, Cincinnati, OH 45242 (US).		
(30) Priority Data:		(74) Agent: SHIRTZ, Joseph F. et al.; Johnson & Johnson, One Johnson & Johnson Plaza, New Brunswick, NJ 08933 (US).		
62/649,291	28 March 2018 (28.03.2018)	US	(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP,	
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62/649,313	28 March 2018 (28.03.2018)	US		
62/649,315	28 March 2018 (28.03.2018)	US		
62/649,320	28 March 2018 (28.03.2018)	US		

(54) Title: SURGICAL INSTRUMENT COMPRISING A JAW CLOSURE LOCKOUT

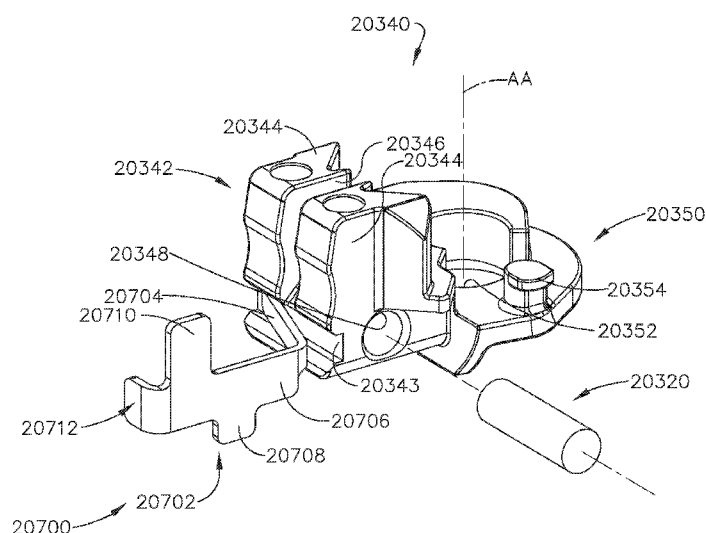


FIG. 19

(57) Abstract: A surgical system is disclosed that comprises a stapling instrument including a jaw closure lockout and a staple cartridge configured to defeat the jaw closure lockout when the staple cartridge is seated in the stapling instrument.





KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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.

- (84) Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, 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, KM, ML, MR, NE, SN, TD, TG).

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

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(h))*

(88) Date of publication of the international search report:

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2019/052515

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B17/072 A61F2/82 A61B90/00
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 A61F

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)

EP0-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	EP 2 992 834 A1 (ETHICON ENDO SURGERY INC [US]) 9 March 2016 (2016-03-09)	20-22, 25,26
Y	paragraphs [0036], [0042] - [0044],	1,2,4-17
A	[0049]	3,24
Y	----- US 2006/022015 A1 (SHELTON FREDERICK E IV [US] ET AL) 2 February 2006 (2006-02-02)	1,2,4-9, 11-17
Y	----- EP 3 235 444 A2 (ETHICON LLC [PR]) 25 October 2017 (2017-10-25) figure 11 page 25	10
Y	----- EP 3 120 781 A2 (ETHICON ENDO-SURGERY INC [US]) 25 January 2017 (2017-01-25) figure 138	2
	----- -/--	



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)

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"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 2019

Date of mailing of the international search report

15/10/2019

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2019/052515

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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E	US 2019/192157 A1 (SCOTT GREGORY G [US] ET AL) 27 June 2019 (2019-06-27) figure 100 paragraphs [0481] - [0185] -----	18
X	US 2013/062394 A1 (SMITH BRET W [US] ET AL) 14 March 2013 (2013-03-14) figure 7A -----	18
X	US 2012/080332 A1 (SHELTON IV FREDERICK E [US] ET AL) 5 April 2012 (2012-04-05) paragraphs [0425], [0457] figure 106138 -----	18,19
X	EP 2 868 281 A1 (COVIDIEN LP [US]) 6 May 2015 (2015-05-06) figure 39 -----	27,28, 31,32 29,30

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2019/052515

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: 1-17, 20-22, 24-26

A surgical stapling assembly directed at a spent cartridge firing lockout.

2. claims: 18, 19, 23

A staple cartridge directed at a pan configured to hold staples in their cavities.

3. claims: 27-32

A staple cartridge directed at an asymmetrical lockout key on the proximal end of the cartridge.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2019/052515

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