

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference END8224WOPCT	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/IB2018/054258	International filing date (<i>day/month/year</i>) 12 June 2018 (12-06-2018)	(Earliest) Priority Date (<i>day/month/year</i>) 28 June 2017 (28-06-2017)
Applicant ETHICON LLC		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed
- a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (See Box No. II)

3. **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant
- the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant
- the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. 11

- as suggested by the applicant
- as selected by this Authority, because the applicant failed to suggest a figure
- as selected by this Authority, because this figure better characterizes the invention

b. none of the figures is to be published with the abstract

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2018/054258

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B17/072
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	EP 1 479 348 A1 (ETHICON ENDO SURGERY [US]) 24 November 2004 (2004-11-24)	1-3,5,6, 8-10,12, 13, 15-17, 19,20
Y A	parsa. 84 - 91; figures 24-29	7,14,20 4,11,18
X	US 2015/374373 A1 (RECTOR JASON M [US] ET AL) 31 December 2015 (2015-12-31)	1-3,5,6, 8-10,12, 13, 15-17,19
A	para. 261-263, 268, 269; figures 53-56, 62-64B	4,11,18
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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 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 September 2018	Date of mailing of the international search report 12/09/2018
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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 Kamp, Martin
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INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2018/054258

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 479 345 A1 (ETHICON ENDO SURGERY [US]) 24 November 2004 (2004-11-24) para. 91-99; figures 25-33	1-20
A	----- WO 2016/144602 A2 (ETHICON ENDO-SURGERY LLC [US]) 15 September 2016 (2016-09-15) para. 66, 178, 179; figures 33, 34	1-20
Y	----- EP 2 366 341 A2 (ETHICON ENDO SURGERY INC [US]) 21 September 2011 (2011-09-21) para. 66-88; rf cartridge for coagulation; figures 23-68	7,14,20
Y	----- WO 2016/144689 A1 (ETHICON ENDO-SURGERY LLC [US]) 15 September 2016 (2016-09-15) para. 225-248; RF cartridge for measuring	7,14,20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2018/054258

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1479348	A1	24-11-2004	AT 400221 T 15-07-2008
		AU 2004202201 A1	09-12-2004
		AU 2007216766 A1	17-04-2008
		AU 2010202270 A1	24-06-2010
		BR PI0703691 A	27-05-2008
		CA 2467881 A1	20-11-2004
		CA 2605353 A1	03-04-2008
		CN 101268954 A	24-09-2008
		EP 1479348 A1	24-11-2004
		EP 1908416 A1	09-04-2008
		ES 2309464 T3	16-12-2008
		JP 4703977 B2	15-06-2011
		JP 2004344659 A	09-12-2004
		KR 20080031127 A	08-04-2008
		MX PA04004883 A	25-11-2004
		SG 141407 A1	28-04-2008
		US 2004232195 A1	25-11-2004
		US 2007084896 A1	19-04-2007
		ZA 200708416 B	30-09-2009

US 2015374373	A1	31-12-2015	US 2015374373 A1 31-12-2015
			WO 2015199866 A2 30-12-2015

EP 1479345	A1	24-11-2004	AT 404127 T 15-08-2008
		AU 2004202204 A1	09-12-2004
		AU 2010214808 A1	23-09-2010
		CA 2467885 A1	20-11-2004
		EP 1479345 A1	24-11-2004
		JP 4749681 B2	17-08-2011
		JP 2004344660 A	09-12-2004
		MX PA04004886 A	25-11-2004
		US 2004232200 A1	25-11-2004

WO 2016144602	A2	15-09-2016	BR 112017018996 A2 17-04-2018
		CN 107530080 A	02-01-2018
		EP 3064149 A2	07-09-2016
		EP 3357434 A2	08-08-2018
		JP 2018507071 A	15-03-2018
		US 2016256160 A1	08-09-2016
		WO 2016144602 A2	15-09-2016

EP 2366341	A2	21-09-2011	AT 512629 T 15-07-2011
		BR PI0901447 A2	26-01-2010
		CN 101507622 A	19-08-2009
		EP 2090243 A2	19-08-2009
		EP 2366341 A2	21-09-2011
		EP 3222223 A1	27-09-2017
		HK 1135883 A1	30-12-2011
		JP 5405139 B2	05-02-2014
		JP 2009189837 A	27-08-2009
		RU 2009105078 A	20-08-2010
		US 2009209990 A1	20-08-2009
		US 2011125176 A1	26-05-2011
		US 2013190757 A1	25-07-2013

WO 2016144689	A1	15-09-2016	BR 112017019001 A2 17-04-2018
			BR 112017019021 A2 17-04-2018
			CN 107567310 A 09-01-2018

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2018/054258

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
		CN 107580472 A	12-01-2018
		EP 3064146 A1	07-09-2016
		EP 3064147 A2	07-09-2016
		JP 2018510698 A	19-04-2018
		JP 2018512910 A	24-05-2018
		US 2016256071 A1	08-09-2016
		US 2016256156 A1	08-09-2016
		US 2016256187 A1	08-09-2016
		WO 2016144601 A1	15-09-2016
		WO 2016144689 A1	15-09-2016
