



(51) International Patent Classification:

A61B 17/425 (2006.01) A61B 34/00 (2016.01)

A61B 18/14 (2006.01) A61B 8/12 (2006.01)

A61B 17/34 (2006.01)

(21) International Application Number:

PCT/IB2020/050546

(22) International Filing Date:

23 January 2020 (23.01.2020)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/797,191 25 January 2019 (25.01.2019) US

(71) Applicant: **ABLACARE SAS** [FR/FR]; 9, rue du 4
Septembre, 75002 Paris (FR).

(72) Inventors: **GASPERMENT, Marion**; 39 rue Simart,
75018 Paris (FR). **LENIHAN, Tim**; Emmy D'Estinnove
237, 50009 Hradek Kralove (CZ). **OSDOIT, Anne**; 5
square de l'Opera Louis Jouvet, 75009 Paris (FR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): 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,
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, ST, SV, SY, TH, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii))

(54) Title: SYSTEMS AND METHODS FOR APPLYING ENERGY TO OVARIAN TISSUE

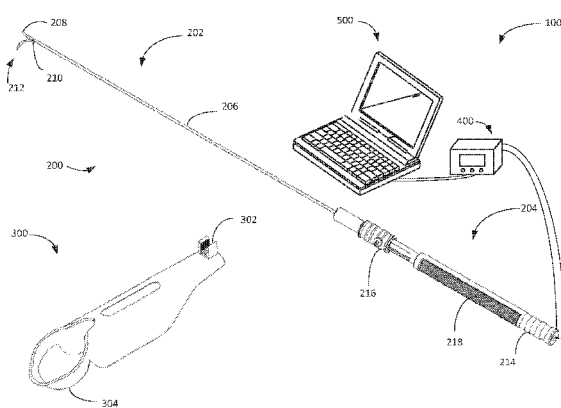


FIG. 1A

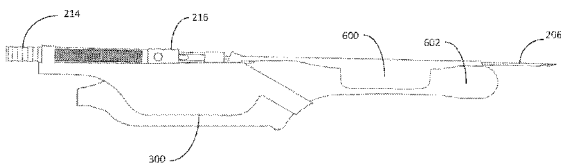


FIG. 1B

(57) Abstract: Described herein are methods and systems for per-
forming a procedure for ovarian rebalancing. The methods and sys-
tems may be used in the treatment of polycystic ovary syndrome
(PCOS). The systems and methods may also be useful in the treat-
ment of infertility associated with PCOS.





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:

03 September 2020 (03.09.2020)

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2020/050546

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61B17/425 A61B18/14 A61B17/34 A61B34/00 A61B8/12
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 2018/110554 A1 (ZARINS DENISE MARIE [US] ET AL) 26 April 2018 (2018-04-26) cited in the application	1-13, 26-29, 31,32
Y	paragraph [0002] paragraph [0156] - paragraph [0157]; figure 28 paragraph [0012] paragraph [0151]; figure 24 paragraph [0073]	30
Y	----- US 2016/338628 A1 (SHAH NEEL [US] ET AL) 24 November 2016 (2016-11-24) paragraph [0084]	30
A	----- CN 207 245 117 U (CHEN YIQI) 17 April 2018 (2018-04-17) paragraph [0035] ----- -/-	4-7,10

☒ 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

15 May 2020

Date of mailing of the international search report

22/07/2020

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

Ekstrand, Vilhelm

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2020/050546

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.: 33-38
because they relate to subject matter not required to be searched by this Authority, namely:
Refer to WOISA
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.:
3-13(completely); 1, 2, 26-32(partially)

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.

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2020/050546

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 877 033 A (SEITZ JR H MICHAEL [US]) 31 October 1989 (1989-10-31) figures 1-3 -----	1-13, 26-32
A	US 4 838 506 A (COOPER WILLIAM I [US]) 13 June 1989 (1989-06-13) figures 1-3 -----	1-13, 26-32
A	US 2018/116630 A1 (DYKES CHRISTOPHER ALLEN [US] ET AL) 3 May 2018 (2018-05-03) paragraph [0118]; figures 10a-i paragraph [0159] - paragraph [0161] -----	1-13, 26-32
A	US 6 884 219 B1 (PRUTER RICK L [US]) 26 April 2005 (2005-04-26) figures 1-3 -----	1-13, 26-32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2020/050546

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2018110554 A1	26-04-2018	AU 2016242867 A1 CN 107635474 A EP 3277191 A1 JP 6712279 B2 JP 2018510012 A US 2018110554 A1 WO 2016161011 A1	19-10-2017 26-01-2018 07-02-2018 17-06-2020 12-04-2018 26-04-2018 06-10-2016
US 2016338628 A1	24-11-2016	EP 3297708 A1 US 2016338628 A1 US 2016338733 A1 US 2016338734 A1 WO 2016191302 A1	28-03-2018 24-11-2016 24-11-2016 24-11-2016 01-12-2016
CN 207245117 U	17-04-2018	NONE	
US 4877033 A	31-10-1989	NONE	
US 4838506 A	13-06-1989	NONE	
US 2018116630 A1	03-05-2018	US 2018116630 A1 US 2019142371 A1 US 2019142373 A1	03-05-2018 16-05-2019 16-05-2019
US 6884219 B1	26-04-2005	NONE	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. claims: 3-13(completely); 1, 2, 26-32(partially)

A system for performing an ovarian procedure comprising an adapter

2. claims: 14-21(completely); 1, 2, 26-32(partially)

A system for performing an ovarian procedure comprising an generator for treatment and feed-back

3. claims: 22-25(completely); 1, 2, 26-32(partially)

A system for performing an ovarian procedure comprising GUI
