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(71) Applicant (for all designated States except US):
ETHICON ENDO-SURGERY, INC. [US/US]; 4545
Creek Road, Cincinnati, OH 45242 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LONG, Gary, L.**
[US/US]; 3722 Pleasant Street, Cincinnati, OH 45227
(US). **PLESCIA, David, N.** [US/US]; 7245 Mariemont
Crescent, Cincinnati, OH 45227 (US). **VAKHARIA,**
Omar, J. [US/US]; 2243 Sussex Avenue, Cincinnati, OH
45230 (US).

(74) Agents: **JOHNSON, Philip, S.** et al.; Johnson & John-
son, One Johnson & Johnson Plaza, New Brunswick, NJ
08933 (US).

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ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI,
NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD,
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ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
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ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: ELECTRICAL ABLATION DEVICES

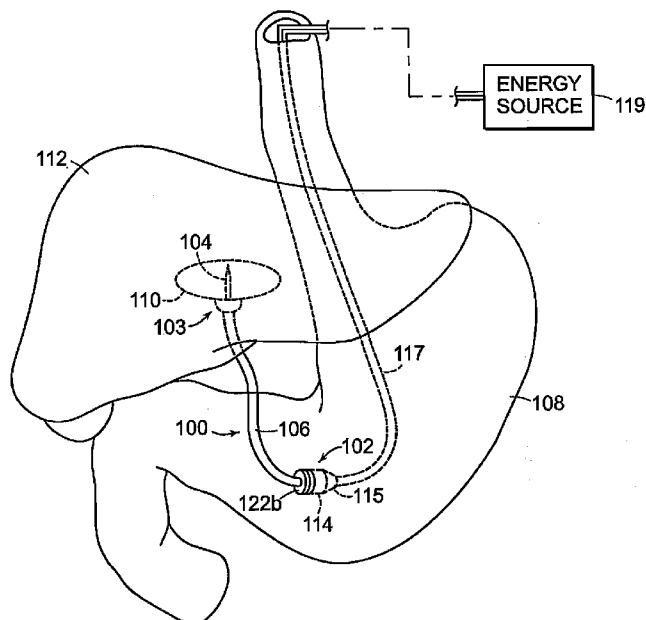


FIG. 1

(57) Abstract: A connector configured to re-
ceive electrical energy from an energy source.
A fastener is coupled to the connector. The
fastener is configured for attachment through a
tissue wall. A first electrode includes at least
one electrically conductive portion and is cou-
pled to the connector by a first electrically
conductive wire.

**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))*
- *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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- *with international search report (Art. 21(3))*

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/054453

A. CLASSIFICATION OF SUBJECT MATTER
 INV. A61B18/14 A61N1/05

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 A61N

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 practical, 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 2006/111704 A1 (BRENNEMAN RODNEY [US] ET AL) 25 May 2006 (2006-05-25) paragraph [0113]; figures 5D, 5E	1, 3-6
A	WO 2004/028613 A (MEDTRONIC INC [US]) 8 April 2004 (2004-04-08) page 11, line 26 - page 13, line 30; figures 9, 12, 13	1-6
A	US 6 296 630 B1 (ALTMAN PETER A [US] ET AL) 2 October 2001 (2001-10-02) column 13, line 16 - column 14, line 51; figures 2F, 2H, 2I	1-6

☐ 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 document 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

13 November 2009

Date of mailing of the international search report

23/03/2010

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

Sopelana Martínez, J

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/054453

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.:

see annex

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: 1-6

An electrical ablation apparatus comprising a connector, a fastener, a first electrode and an electrically conductive wire.

2. claims: 7-12

An electrical ablation apparatus comprising a first electrode, a second electrode and an electrically insulative portion.

3. claims: 13-15,24-25

An electrical ablation apparatus comprising a first electrode, an antenna and an electrically conductive wire.

4. claims: 16-18

An electrical ablation apparatus comprising an elongate tubular body, a balloon electrode, an inner conduit and an inflation fluid line.

5. claim: 19

An electrical ablation system comprising a first needle electrode, a second needle electrode and an energy source.

6. claims: 20-23

An electrical ablation apparatus comprising a first electrode having a circular body defining a hub and arranged to rotate about an axis, and an electrically conductive wire.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2009/054453

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2006111704	A1	25-05-2006	EP	1824404 A2	29-08-2007
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