



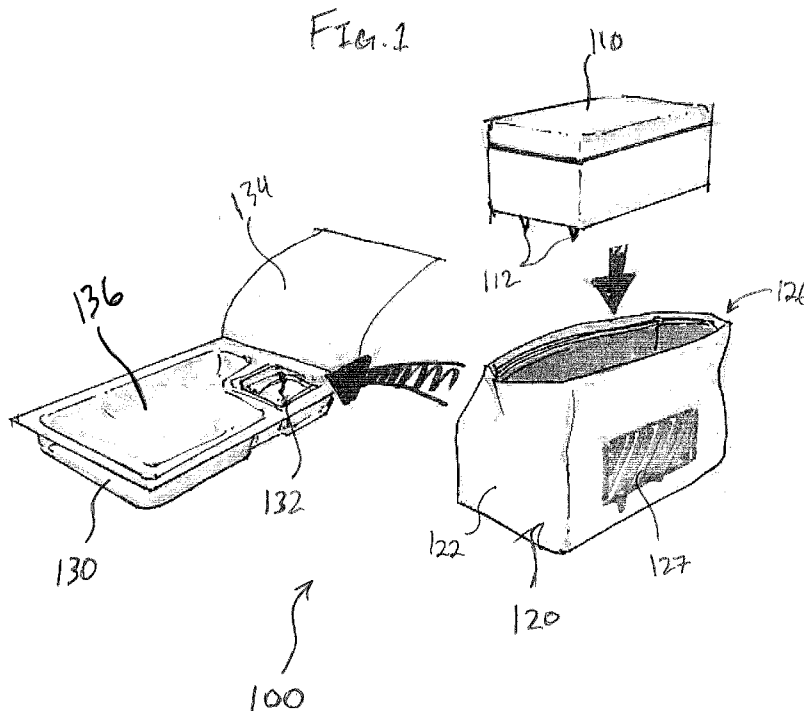
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- (81) **Designated States (unless otherwise indicated, for every  
kind of national protection available):** AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,  
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO,  
DZ, EC, EE, EG, ES, 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,  
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GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, 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,

[Continued on nextpage]

(54) **Title:** STERILE BATTERY CONTAINMENT



(57) **Abstract:** An apparatus for delivering electrical power to an electrically powered medical device includes a battery, a first compartment, and a second compartment where the second compartment can hold the first compartment and the first compartment can hold the battery. A sterile space is defined between the first compartment and the second compartment. The first compartment and the battery may be selectively electrically coupled with the electrically powered medical device such that the first compartment does not compromise the sterility of the electrically powered medical device.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Hi))*

**Declarations under Rule 4.17:**

- *as to the identity of the inventor (Rule 4.17(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(H))*

**Published:**

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

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

6 June 2013

# INTERNATIONAL SEARCH REPORT

International application No PCT/US2012/045359
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A. CLASSIFICATION OF SUBJECT MATTER  
 INV. A61B19/02  
 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

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2011/057608 A1 (SMITH KEVIN W [US] ET AL) 10 March 2011 (2011-03-10) paragraphs [0040] - [0047] -----	1, 3, 6-8
X	US 2008/284372 A1 (COVER REID [US] ET AL) 20 November 2008 (2008-11-20) paragraphs [0023] - [0027]; figure 2.5 -----	1, 4, 7, 8, 10, 14
X	EP 1 834 568 A1 (OLYMPUS CORP [JP]) 19 September 2007 (2007-09-19) paragraphs [0017] - [0022]; figure 13 -----	1, 8
X	W0 2008/033874 A2 (VIDACARE CORP [US]; MILLER LARRY J [US]; TITKEMEYER ROBERT W [US]; BOL) 20 March 2008 (2008-03-20) pages 29-31; figures 1A-1J ----- -/- .	1, 3, 8, 10, 15

<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.	<input checked="" type="checkbox"/> See patent family annex.
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\* Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"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</p> <p>"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</p> <p>"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</p> <p>"&amp;" document member of the same patent family</p>
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Date of the actual completion of the international search  14 November 2012	Date of mailing of the international search report  18/01/2013
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  Chopinoud, Marjorie

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2012/045359

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 2010/174415 AI (HUMAYUN MARK [US] ET AL) 8 July 2010 (2010-07-08) the whole document -----	1-15
A	US 2003/205987 AI (BARLEV B ALEX [US] ET AL) 6 November 2003 (2003-11-06) the whole document -----	1-15

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US2012/045359

## 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. :

1-15

### 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: 1-15

An apparatus comprising a battery pack, a first compartment configured to contain the battery pack further comprising a closing feature operable to fluidly seal the first compartment and a second compartment, wherein the second compartment is configured to contain the first compartment.

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## 2. claims: 16-19

An apparatus comprising a tray with a first and a second recess, a cover to fluidly seal the tray and a battery compartment comprising at least two nested compartments and a battery contained within the at least two nested compartments.

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## 3. claim: 20

A method for delivering electrical power to a medical device using a battery pack comprising the steps of:

- a) removing the battery pack from a storage tray;
- b) charging the battery while the battery remains within the inner compartment;
- (c) opening the outer compartment of the battery pack to remove the inner compartment from the battery pack, wherein the inner compartment contains the battery;
- (d) coupling the inner compartment and the battery to the medical device;
- (e) using the medical device;
- (f) decoupling the inner compartment and the battery from the medical device; and
- (g) recharging the battery through the inner compartment.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No <b>PCT/US2012/045359</b>
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Patent document cited in search report	AI	Publication date	Patent family member(s)	Publication date
US 2011057608	AI	10-03-2011	US 2011057608 AI	10-03-2011
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