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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, BN, 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, 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, PA, 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, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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**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))

[Continued on next page]

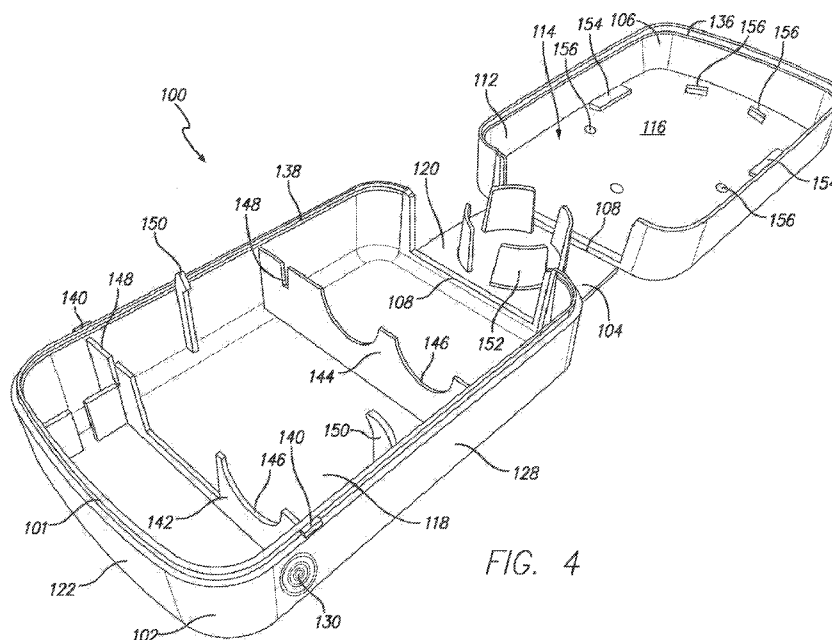
(54) **Title:** DEVICE CONTAINER

FIG. 4

(57) **Abstract:** Device containers, such as therapeutic kit containers, are disclosed. In one embodiment, a device container comprises a first member configured to releasably hold a syringe barrel, a second member configured to releasably hold a vial, wherein the second member is coupled to the first member by a first hinge, and a third member configured to releasably hold a vial adapter, wherein the third member is coupled to the second member by a second hinge.



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27 February 2014

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B65D 83/00, 02 (2013.01)

USPC - 206/364, 365

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)

IPC(8) Classification(s): B65D 83/00, 02 (2013.01)

USPC Classification(s): 206/364, 365

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)

MicroPatent (US Granted, US Applications, EP-A, EP-B, WO, JP, DE-G, DE-A, DE-T, DE-U, GB-A, FR-A); DialogPro (Derwent, INSPEC, NTIS, PASCAL, Current Contents Search, Dissertation Abstracts Online, Inside Conferences); Google.com; Google.com/Scholar; syringe, needle, inject, diabetic, kit, container, vial

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No.   |
|-----------|------------------------------------------------------------------------------------|-------------------------|
| X<br>---  | US 4,671,408 A (RAINES, K et al.) June 9, 1987; abstract, figures 1-3              | 1-5, 9-13, 17-20<br>--- |
| Y         |                                                                                    | 6-8, 14-16, 21, 22      |
| Y         | US 1,235,890 A (GILBERT, AJ) August 7, 1917; figures 1-2                           | 6-8, 14-16, 21, 22      |
| A         | US 4,106,621 A (SORENSEN, JL) August 15, 1978; entire document                     | 1-22                    |
| A         | WO 2007/091153 A1 (STEYN, RSO) August 16, 2007; entire document                    | 1-22                    |

☐ Further documents are listed in the continuation of Box C.

\* 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

"&amp;" document member of the same patent family

Date of the actual completion of the international search

09 December 2013 (09.12.2013)

Date of mailing of the international search report

16 DEC 2013

Name and mailing address of the ISA/US

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**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:

\*\*\*-Please See Supplemental Page-\*\*\*

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 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.:  
1-22

**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.

\*\*\*Continued from Box No. III: Observations where unity of invention is lacking\*\*\*

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I: Claims 1-22 are directed toward a container with three coupled members.

Group II: Claims 23-36 are directed toward a therapeutic kit containing a syringe and vial.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons.

The special technical features of Group I include a container comprising: a first member comprising an outer surface; a second member comprising an outer surface, wherein the second member is coupled to the first member by a first hinge; and a third member comprising an outer surface and configured to releasably hold a vial adapter, wherein the third member is coupled to the second member by a second hinge, wherein the container is configured such that in the closed configuration, the outer surfaces of the first and third members are approximately parallel to one another and facing opposite from one another, and wherein the container is configured such that in the open configuration, the outer surfaces of the first, second, and third members are approximately parallel to one another and facing the same direction; wherein the side panel (e.g., second member) is configured to releasably hold a vial in such a way that a longitudinal axis of the vial would be approximately parallel to the top and bottom panels; which are not present in Group II.

The special technical features of Group II include a therapeutic kit comprising: a syringe barrel having a longitudinal axis; a vial and having a cap and a base; wherein the longitudinal axis of the syringe barrel is approximately parallel to the longitudinal axis of the vial when the container is in its closed position, and wherein the longitudinal axis of the syringe barrel is approximately perpendicular to the longitudinal axis of the vial when the container is in its open position; a (second) member configured to releasably hold the vial in an upright position; wherein the container is configured such that a user may couple the syringe barrel to the cap of the vial without first releasing the vial from the (second) member; wherein the container is further configured to provide stability to the syringe barrel when the syringe barrel is coupled to the vial while the vial is still releasably held in the upright position; which are not present in Group I.

The common technical features of Groups I and II are a container having a closed configuration and an open configuration, a vial having a longitudinal axis, a syringe barrel; and a container for holding the syringe barrel and the vial, the container comprising: a first member configured to releasably hold the syringe barrel, and a second member configured to releasably hold the vial.

These common technical features are disclosed by US 1,235,890 A to Gilbert (hereinafter "Gilbert"). Gilbert discloses a container having a closed configuration and an open configuration (case 1 (container) is shown to have both a closed and open configuration; figures 1, 2); a vial having a longitudinal axis (vials 21; page 2, lines 1-5); a syringe barrel (hypodermic syringe 26 (syringe barrel); page 1, lines 10-15); the container for holding the syringe barrel and the vial (case 1 (container) holds vials 21 and hypodermic syringe 26 (syringe barrel); figures 1, 2); the container comprising: a first member configured to releasably hold the syringe barrel (central compartment 12 (first member) holds hypodermic syringe 26 (syringe barrel); page 1, lines 85-90); and a second member configured to releasably hold the vial (retaining compartment 18 (second member) holds vials 21; page 1, lines 105-110).

Because the common technical features are disclosed by Gilbert, the inventions are not so linked as to form a single general inventive concept. Therefore, Groups I and II lack unity.