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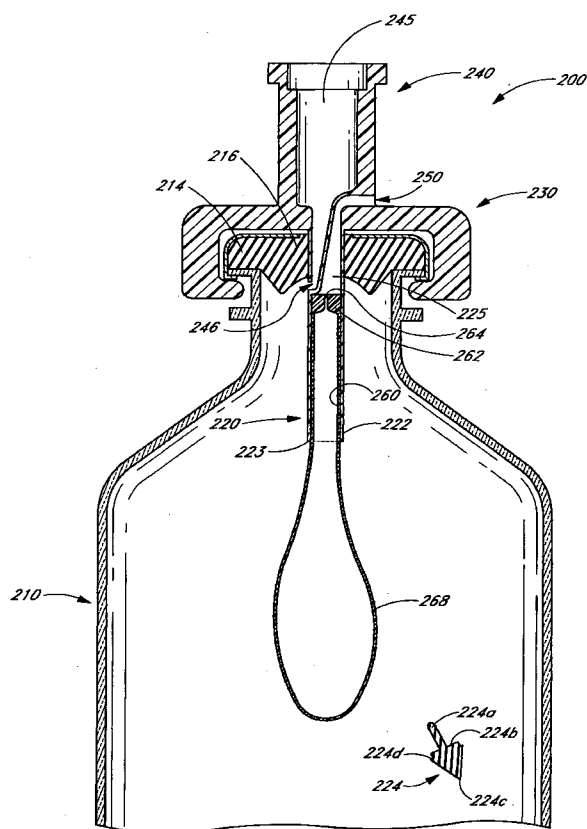
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[Continued on next page]

(54) Title: VIAL ADAPTORS AND VIALS FOR REGULATING PRESSURE



(57) Abstract: In certain embodiments, a vial adaptor for removing liquid contents from a vial includes a piercing member and a bag. The bag can be contained within the piercing member such that the bag is introduced to the vial when the vial adaptor is coupled with the vial. In some embodiments, the bag expands within the vial as liquid is removed from the vial via the adaptor, thereby regulating pressure within the vial. In other embodiments, a vial includes a bag for regulating pressure within the vial as liquid is removed therefrom. In some embodiments, a vial adaptor is coupled with the vial in order to remove the liquid. In some embodiments, as the liquid is removed from the vial via the adaptor, the bag expands within the vial, and in other embodiments, the bag contracts within the vial.

WO 2007/120641 A3



RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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13 March 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/008809

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61J1/00

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)
A61J B65D

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 84/04672 A (GUSTAVSSON BENGT) 6 December 1984 (1984-12-06)</p> <p>page 2, line 30 - page 3, line 1 page 3, line 35 - page 4, line 9 figures 1-5</p> <p style="text-align: center;">-----</p>	<p>1,9,21, 27,29, 34,40,47</p>

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

12 September 2007

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/008809

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 allsearchable 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.:

1-53

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: 1-53

A pressure regulating adaptor, and corresponding methods of use and of producing, comprising a piercing member and a bag to be positioned within a vial when the piercing member is within the vial.

2. claim: 54

A pressure regulating adaptor comprising a piercing member, a first channel, a second channel and a bladder containing sterilized gas.

3. claims: 55-59

An adaptor for coupling with a vial comprising a piercing member, a first channel and a second channel, said first channel having a first port with a first filter and a second port comprising a substantially impervious bag.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/008809

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 8404672	A	06-12-1984	
		AU 569900 B2	25-02-1988
		AU 3017584 A	18-12-1984
		EP 0176511 A1	09-04-1986
