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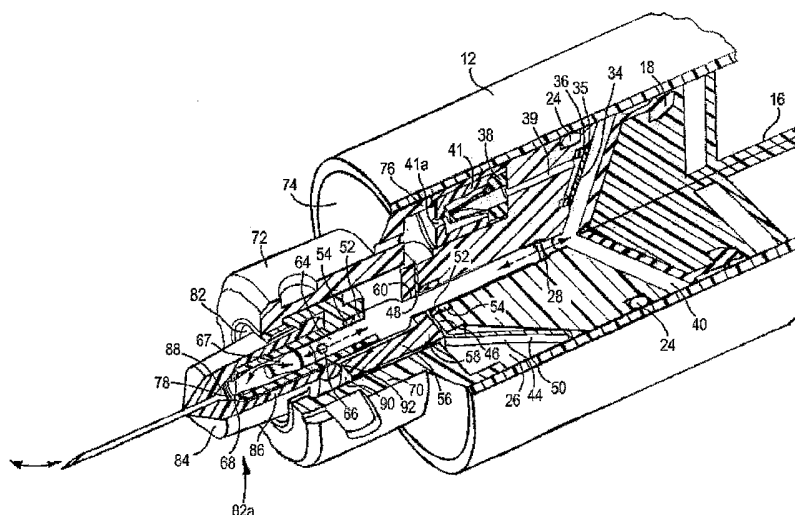
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(81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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[Continued on next page]

(54) **Title:** MULTI-OUTLET MEDICAL DISPENSING DEVICE



(57) **Abstract:** A medical delivery device comprising an elongate body (12) having a plunger (16) slidably and sealingly engaged to form a cavity (40) to receive fluid materials and a first outlet disposed at an end of said body and has a male luer end portion (82) and a valve assembly (38) is disposed within the first outlet. The valve assembly (65) has a valve means movable between an open position and a closed position and biasing means for biasing the valve means to a closed position. Actuating means (56) are disposed within the male luer end portion (86) and coupled to the valve means such that the valve means is movable to an open position when a female luer end portion of a medical accessory is coupled with the male luer end portion. A second outlet is disposed at the same end as the first outlet for controlling the exchange of gases from the environment to said cavity under the action of the plunger. Lastly, a third outlet is disposed at the same end as the first outlet for controlling the exchange of gases from the cavity to the environment under the action of the plunger.



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INTERNATIONAL SEARCH REPORT

national application No
PCT/US2005/014953

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61M5/28 A61M39/26

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)
A61M

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.
X	US 2002/165496 A1 (THOMPSON GAREY) 7 November 2002 (2002-11-07)	1
Y	paragraphs [0008], [0023]; figures 1,2	2
A	US 5 045 096 A (QUANG ET AL) 3 September 1991 (1991-09-03)	1
Y	column 4, line 9 - column 5, line 2; figures 1,2	2
Y	US 4 821 738 A (IWASAKI ET AL) 18 April 1989 (1989-04-18)	2
	column 4, line 40; figures	
P,X	WO 2004/039439 A (VASOGEN IRELAND LIMITED; MATSUURA, DAVID, G; SIMPSON, PHILIP, J; GILLE) 13 May 2004 (2004-05-13)	1
	abstract; figures	
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☒ 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.

Z document member of the same patent family

Date of the actual completion of the international search

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Date of mailing of the international search report

18/08/2006

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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 716 187 B1 (JORGENSEN GLEN E ET AL) 6 April 2004 (2004-04-06) column 3, line 65 - column 4, line 2; figure 5c -----	3,30
A	US 2003/111623 A1 (ENERSON JON R) 19 June 2003 (2003-06-19) abstract; figures -----	3-33
A	US 2003/136932 A1 (DOYLE MARK C) 24 July 2003 (2003-07-24) abstract; figures -----	3-33

INTERNATIONAL SEARCH REPORT

national application No.
PCT/US2005/014953

Box 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 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 fee, this Authority did not invite payment of any additional fee.
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.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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

1. claims: 1,2

A medical dispensing device having a first outlet disposed at an end of said body of the device and a second outlet disposed at said end for controlling the exchange of gases when under pressure.

2. claims: 3-33

A medical dispensing device comprising a valve which opens when the male luer is connected to the device and closes when the male luer is disconnected

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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US 5045096	A	03-09-1991	DE 3832028 A1 22-03-1990
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