



- (51) **International Patent Classification:**
A61F 5/44 (2006.01)
- (21) **International Application Number:**
PCT/US2012/025225
- (22) **International Filing Date:**
15 February 2012 (15.02.2012)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/031,379 21 February 2011 (21.02.2011) US
- (71) **Applicant (for all designated States except US):** **INTERNATIONAL MEDICAL TECHNOLOGY, INC.** [US/US]; P.O. Box 1533, Temecula, California 92593 (US).
- (72) **Inventor; and**
- (75) **Inventor/Applicant (for US only):** **SALAMA, Fouad A.** [US/US]; P.O. Box 1533, Temecula, California 92593 (US).
- (74) **Agent:** **COLEMAN, Kyle S.**; McKee, Voorhees & Sease, P.L.C., 801 Grand Avenue, Suite 3200, Des Moines, Iowa 50309-2721 (US).
- (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, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, 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, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) **Title:** FLOW CONTROL AND COLLECTION DEVICE

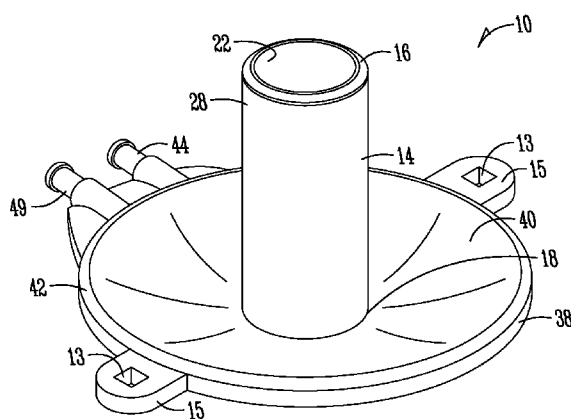


Fig. 2A

(57) **Abstract:** A flow control and collection system includes a flow control device having a tubular member in which an inflatable balloon is positioned about the circumference of the interior side wall for closing the passageway to movement of matter and liquid when the balloon is expanded and allowing flow when the balloon is contracted against the side wall to which it is attached. The flow control device includes an adapter at the outer end of the tubular member having one or more interlocking features. A waste collection bag has a sealed body with at least one opening and a flow control device adapter at the opening having one or more counterpoising interlocking features to removably lock the adapters together and passes waste material and liquid through the flow control device into the waste collection bag.

WO 2012/115835 A3



Published:

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

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

24 April 2014

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2012/025225

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 5/44 (2012.01)

USPC - 604/332

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) - A61F 5/00, 5/44, 5/445, 5/458 (2012.01)

USPC - 604/332, 335

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)

PatBase, Google Patents

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 2002/0077611 A1 (VON DYCK et al) 20 June 2002 (20.06.2002) entire document	1-15, 17-22
Y		16, 23-25
Y	US 4,799,929 A (KNOWLES) 24 January 1989 (24.01.1989) entire document	16
Y	US 2007/0198034 A1 (ORTIZ et al) 23 August 2007 (23.08.2007) entire document	23-25

☐ 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

"&" document member of the same patent family

Date of the actual completion of the international search

07 June 2012

Date of mailing of the international search report

20 JUN 2012

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450

Facsimile No. 571-273-3201

Authorized officer:

Blaine R. Copenheaver

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774