



- (51) **International Patent Classification:**
B32B 27/14 (2006.01)
- (21) **International Application Number:**
PCT/US2014/027044
- (22) **International Filing Date:**
14 March 2014 (14.03.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
13/840,558 15 March 2013 (15.03.2013) US
- (71) **Applicant:** BEMIS COMPANY, INC. [US/US]; One Neenah Center 4th Floor, 134 E. Wisconsin Avenue, Neenah, Wisconsin 54956 (US).
- (72) **Inventor:** JANSEN, Christopher, Rene; 445 Van Street, Kaukauna, WI 54130 (US).
- (74) **Agent:** CONNERS, Sheena E.; Bemis Company, Inc., Office Of Intellectual Property Counsel, P.O. Box 669, Neenah, WI 54957 (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, 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, IR, 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, SA, 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, 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, KM, ML, MR, NE, SN, TD, TG).

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))

- (88) **Date of publication of the international search report:**
19 November 2015

(54) **Title:** RADIAL FILTRATION VENT AND MEDICAL DEVICE PACKAGING

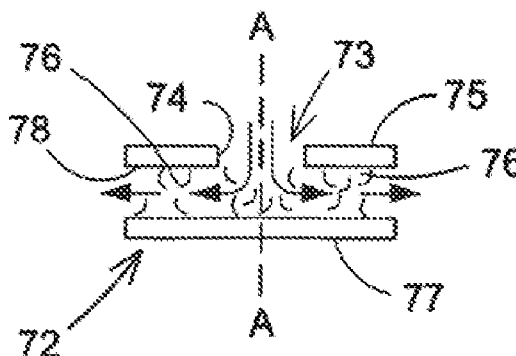


FIG. 11

(57) **Abstract:** A gas sterilisation package component having (a) a gas diversion wall stock for at least a portion of a container, the wall stock having an opening therethrough; (b) a gas diversion layer; (c) a filter sheet disposed between (a) and (b), the filter sheet having a first surface and an opposing second surface circumscribed by a perimeter edge; and wherein the first surface of the filter sheet is attached to a surface of said gas diversion layer and the second surface of the filter sheet is sealed to a surface of the wall stock whereby an opening in the wall stock is covered by the filter sheet and a gas passageway is defined from the opening through a portion of the second surface of the filter sheet and extending through said filter perimeter edge.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/27044

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - B32B 27/14 (2014.01)

USPC - 428/198

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) - B32B 27/14 (2014.01)

USPC - 428/198

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

IPC (8) - B65B 55/02 (2014.01), B65B5/02 (2014.01)

428/284, 287, 296, 421, 422, 195, 198, 304.4, 343, 354, 355; 206/363, 557, 458; 53/432, 452; 220/677

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Patbase Minesoft, FreePatentsOnline, Google Scholar: sterilization, package, bag, container, diversion, opening, aperture, passageway, layer, filter, sheet, thickness, length, plastic, polymeric, polyester, polyethylene, polyolefin, adhesive, sintered, cell, foam, mat, polypropylene, release liner, pressire sensitive

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,503,497 A (Riely et al.) 31 March 1970 (31.03.1970) entire document	1, 2, 11-13, 22
---		-----
Y		3-10, 14-21, 23-25
---		-----
A		26
Y	US 2003/0165663 A1 (Christopherson et al.) 04 September 2003 (04.09.2003) entire document; especially paragraphs [0016], [0022], [0025], [0033]	3-10, 19-21
Y	US 2004/0129648 A1 (Manesis) 08 July 2004 (08.07.2004) entire document; especially paragraphs [0041] and [0043]	14, 23
Y	US 2003/0031857 A1 (Saier) 13 February 2003 (13.02.2003) entire document; especially paragraphs [0002], [0003], [0012]	15
Y	US 6,177,036 B1 (Van Der Hoeven et al.) 23 January 2001 (23.01.2001) entire document; especially col. 10 lines 11-15	16
Y	US 5,762,797 A (Patrick et al.) 09 June 1998 (09.06.1998) entire document; especailly col. 5 lines 33-38	17
Y	US 2011/0201050 A1 (Niazi) 18 August 2011 (18.08.2011) entire document; especially paragraph [0027]	18

☒ 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

03 July 2014 (03.07.2014)

Date of mailing of the international search report

29 SEP 2015

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:

Lee W. Young

PCT Helpdesk: 571-272-4300

PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/27044

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,342,673 A (Bowman et al.) 30 August 1994 (30.08.1994) entire document; especailly col. 3 lines 50-60 and col. 4 lines 50-60	24, 25