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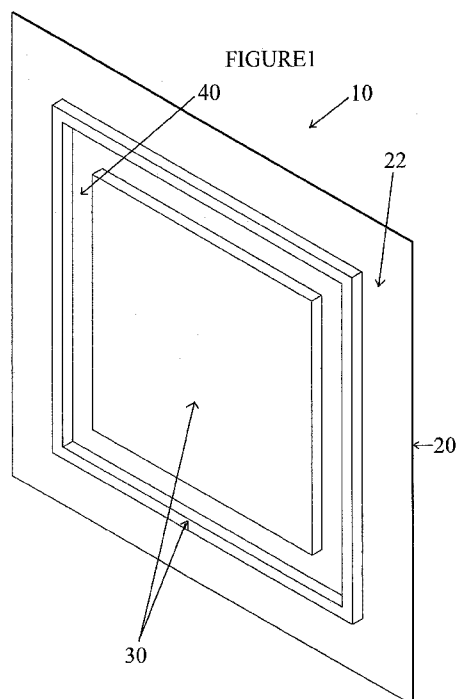
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(57) Abstract: A stoma dressing for use by ostomy patients comprising an underlying fluid impermeable layer having an adhesive edge; a highly absorbent core fixedly superimposed on the underlying fluid impermeable layer and totally encircled by the adhesive edge; a groove running the entire outer perimeter of the middle highly absorbent core; and a bead of skin healing/skin protecting cream or ointment filling the groove. In use, the stoma dressing is placed over the stoma in a manner that the top of the highly absorbent core and the adhesive edge of the impermeable layer face the skin and stoma of the patient. When lightly pressed against the skin such that the adhesive edge adheres to the patient's skin, the bead of cream or ointment in the groove spreads on the patient's skin around the outer perimeter of the middle absorbent core, to create a skin area that is protected from the stoma effluents without interfering with the adhesive properties of the adhesive edge of the dressing.



LIFE APPLICATION PATCH

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority from U.S. Provisional Application Serial No. 62/495,027 filed on August 31, 2016, and incorporated by reference in its entirety, as if more fully set forth herein.

BACKGROUND OF THE INVENTION

Field of invention:

The present invention relates to ostomy bandages or dressings, for use by ostomy patients, *i.e.*, patients who have undergone the surgical construction of an artificial excretory opening or stoma. More particularly, the present invention relates to an ostomy bandage comprising a highly absorbent core mounted on a moisture barrier layer, a groove on the outer perimeter of the core, and a hydrophobic composition, such as an ointment or a cream contained within the groove such that the ostomy bandage is highly absorbent, easily removed to provide access to the stoma and thereafter easily reattached to the skin surrounding the stoma, if necessary. It is highly effective in preventing the soiling of the patients' clothing while at the same time promoting the healing of and the protecting of the skin around the stoma, preventing injury and infection thereto, and prohibiting the spreading of bodily fluids and waste beyond the outer perimeter of the core.

Prior Art

The terms "ostomy" and "stoma" are general descriptive terms that are often used interchangeably, though they have different meanings. An ostomy refers to the process of surgically creating an opening in the body for the discharge of body wastes. A stoma is the

1 actual end of the ureter, or small, or large bowel that can be seen protruding through the
2 abdominal wall, after an ostomy is completed. The most common specific types of
3 ostomies are colostomies, ileostomies, and urostomies.

4 As of October 2016, more than 750,000 Americans live with an ostomy, and over
5 100,000 Americans undergo an ostomy every year. Whether it is because of cancer; or an
6 inflammatory bowel disease like Crohn's disease, or ulcerative colitis, diverticulitis, or
7 incontinence, an ostomy can give people with debilitating illnesses a new lease on life-one
8 with fewer hospitalizations and less debilitating pain.

9 In some ostomies, an external pouch is attached to the stoma to provide a reservoir
10 for the collection of the waste. In other ostomies, such as a urostomy where, for example,
11 an internal continent Kock or Indiana pouch is installed with an abdominal stoma, no
12 external pouch is necessary. If a pouch is used to accumulate the stoma secretions, then the
13 use of a skin barrier to protect the peri-stomal skin and promote healing around the stoma
14 is highly recommended. In the case of a non-pouch urostomy, the skin barrier is not
15 necessarily recommended. A skin barrier does not stop the leaking of urine through the
16 stoma once the internal pouch is filled. Instead the internal continent pouch requires
17 convenient catheterization through the abdominal stoma. More specifically the continent
18 pouch is emptied by inserting a flexible silicone catheter with a coude'tip (elbow or angled
19 tip) into the stoma four to eight times a day. Following catheterization or in a regulated
20 colostomate, a small moisture proof pad needs to be worn over the stoma to absorb normal
21 stomal secretions.

22 Ostomy patients unfortunately don't have many choices when it comes to small
23 moisture proof pads for use over the stoma to absorb normal stomal secretions, such as
24 leaking urine, and whatever choices they do have are poor ones. For example,
25 BANDAID® brand bandages don't work because they are just not absorbent enough.

1 Mucus leaks through to soil the ostomy patient's clothing.
2 <http://www.j-pouch.org/topic/stoma-covering>. Urine leaks through too. When the pouch or
3 bladder reaches capacity, the urine spurts out of the stoma uncontrollably.

4 3M currently manufactures and sells a colostomy dressing under the mark
5 NEXCARE™ STOMASEAL™. 3M markets it as "a time-saving application for the
6 regulated colostomate, featuring pad & adhesive in an easy-to-apply dressing that is
7 comfortable to wear." The adhesive is "strong to stick tightly and securely, but removes
8 easily." "The pad absorbs 6 times its own weight in bodily fluids." It "protects clothing
9 because the tape resists fluid penetration."
10 [http://www.nexcare.com/3M/en_US/nexcare/products/catalog/~Nexcare-Stomaseal-Colos-](http://www.nexcare.com/3M/en_US/nexcare/products/catalog/~Nexcare-Stomaseal-Colostomy-Dressing?N=4326+3294529207+3294631188&rt=rud)
11 [tomy-Dressing?N=4326+3294529207+3294631188&rt=rud](http://www.nexcare.com/3M/en_US/nexcare/products/catalog/~Nexcare-Stomaseal-Colostomy-Dressing?N=4326+3294529207+3294631188&rt=rud). However, while the
12 NEXCARE™ STOMASEAL™ Colostomy Dressings work a bit better than the Bandaid®
13 bandages, they do not work well with urostomy patients. Despite the fact that they absorb 6
14 times their own weight in bodily fluids, they are still just not absorbent enough. In the
15 absence of a timely catheterization, urine leaks through to soil the ostomy patient's
16 clothing, and after repeated leaks can injure or lead to the breakdown of the ostomy
17 patients' peri-stomal skin.

18 MESTOPORE S™ dressings are being marketed as self-adhesive dressings with
19 the Safetac™ soft silicone technology for continent stomas, capable of being removed with
20 minimal trauma and pain and provided with a highly absorbent pad.
21 <https://marchesemedicalsupplies.ca/mestopore-s-dressing-10cm-x-10cm> Safetac® is
22 patented soft silicone adhesive technology. Dressings with Safetac® technology are
23 atraumatic both during wear and upon removal. These dressings minimize trauma to the
24 wound and the surrounding skin, by preventing skin stripping upon removal of the
25 dressings.

1 While MESTOPORE S dressings claim to have highly absorbent pads, it only takes
2 an hour or two for the pads to become soaked. As a result, even MESTOPORE S pads are
3 not absorbent enough. In the absence of a timely catheterization of the internal pouch
4 created by a urostomy, urine leaks through to soil the ostomy patient's clothing, and after
5 repeated leaks can injure or lead to the breakdown of the ostomy patients' peri-stomal skin.

6 As a result, ostomy patients are constrained to resort to all sorts of other items to
7 absorb their stomal secretions, including leaking urine. Some patients use nursing pads
8 held in place with tape. Other patients use cotton balls covered with makeup remover pads,
9 secured with tape right over their stoma. Still others, use sanitary, or menstrual napkins or
10 pads such as KOTEX® or ALWAYS®, also held in place with tape. While still others, use
11 tissue paper, napkins, or toilette paper. As one can imagine, these are poor solutions to the
12 ostomy patients' need for small moisture proof pads for use over the stoma, to absorb
13 normal stomal secretions and urine, and prevent the soiling of their clothing.

14 The bigger problem with the foregoing solutions is the skin irritation and ultimately
15 skin injury that they can cause. The stomal secretions, absorbed by the bandages and
16 coverings discussed above, will diffuse throughout the entire dressing, accumulate under
17 the adhesive tape, and irritate and breakdown the peri-stomal skin. For example, ileostomy
18 output is full of digestive enzymes, which if they leak and come in contact with the
19 peristomal skin, can lead to skin breakdown. Likewise, urine spurting out of the stoma
20 uncontrollably, when the internal urostomy pouch or bladder reaches capacity, can and will
21 lead to skin break down. The urine accumulates under the adhesive perimeter of the
22 dressings to irritate the peristomal skin to which the dressings are attached.

23 According to www.ostomy.org the best skin protection is a well-fitted and
24 comfortable pouching system, if applicable. In addition, there are a number of basic ostomy
25 skin care products that are available to help skin that tears easily. Such products include

1 skin sealants, adhesive removers, skin barrier pastes, ostomy adhesives, and skin barrier
2 powders. On the other hand, the use of skin healing oil based products such as oil based
3 soaps, white petrolatum, vitamin A&D ointment, zinc oxide, lanolin, creams, lotions and
4 other similar products are contra-indicated because they are greasy and oily. They interfere
5 with the adhesion of ostomy devices or the dressings set forth herein above and exacerbate
6 the leakage problems and therefore the skin irritation associated therewith. Consequently,
7 some patients with flesh to skin stomas that leak urine from the abdomen require Botox
8 injections to paralyze the nerves in the bladder to prevent leakage; a very extreme solution
9 to the problem of stoma mucus and urine leakage.

10 Quality of life is paramount for ostomy patients. Bandages or dressings of the type
11 described above and the problems they can cause will and do affect the lives of ostomy
12 patients. Leaks lead to frequent changes in clothes and frequent emptying. Not only are
13 frequent leaks and emptying inconvenient, but they make patients feel self-conscious about
14 their appearance, their body odor, their overall physical attractiveness, sexual function, and
15 can potentially get them down and depressed causing them not to want to go out or see
16 people, leading to social isolation.

17 Accordingly, there is a real need for the development of moisture proof bandages or
18 dressings that can be worn over the stoma for long periods of time, capable of absorbing
19 normal stomal secretions and urine leaks. There is a need for dressings that are highly
20 absorbent and effective in preventing the soiling of the patients' clothing, while at the same
21 time promoting the healing of and the protecting of the skin around the stoma, preventing
22 injury and infection thereto, and prohibiting the spreading of bodily fluids and waste
23 beyond the perimeter of the bandages or dressings. Finally, there is a real need for ostomy
24 bandages or dressings capable of helping patients recapture their quality of life and
25 self-confidence, and restoring to them their mental health and well being.

SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide stoma bandages or dressings capable of absorbing bodily fluids for long periods of time by means of a highly absorptive central core material.

It is another object of the present invention to provide stoma bandages or dressings capable of preventing injury to, or the breakdown of the ostomy patients' peri-stomal skin.

It is still another object of the present invention to provide stoma bandages or dressings capable of preventing the migration of stoma effluents such as mucus or urine to, and their interference with, the adhesive edge of said bandages or dressings, thereby preventing the dressings from falling off the stoma on their own.

It is yet object of the present invention to provide stoma dressings or bandages that provide for and promote healthy peri-stomal skin.

It is a further object of the present invention to provide stoma dressings or bandages that allow for the use of skin protecting creams or ointments, without interfering with the adhesive capabilities of said dressings to the skin, surrounding a stoma.

It is an object of the present invention to provide stoma bandages or dressings with a breathable adhesive band all around the dressings, capable of securing the dressings to the particular area of skin surrounding the stoma.

It is yet another object of the present invention to provide stoma dressings that are highly absorbent and effective in preventing the soiling of the patients' clothing while at the same time promoting the healing of and the protecting of the skin around the stoma, preventing injury and infection thereto, and prohibiting the spreading of bodily fluids and waste beyond the perimeter of the bandages or dressings.

1 It is still another object of the present invention to provide stoma bandages or
2 dressings capable of helping patients recapture their quality of life and self-confidence, and
3 restoring their mental health and well being.

4 In accordance with the present invention there is provided a stoma bandage or
5 dressing comprising an underlying fluid impermeable layer having an adhesive edge; a
6 middle, thick, highly absorbent core superimposed on the underlying fluid impermeable
7 layer and totally encircled by the adhesive edge; a groove running the entire outer perimeter
8 of the middle highly absorbent core; and a bead of skin healing/skin protecting cream or
9 ointment filling the groove. In use, the inventive stoma bandage or dressing is placed over
10 the stoma in a manner that the top of the middle highly absorbent core and the adhesive
11 edge of the impermeable layer face the skin and stoma of the patient. When lightly pressed
12 against the skin such that the adhesive edge adheres to the patient's skin, the bead of cream
13 or ointment in the groove spreads on the patient's skin around the outer perimeter of the
14 middle absorbent core, to create a skin area that is protected from the stoma effluents,
15 without interfering with the adhesive properties of the outer adhesive edge of the dressing.

16 These and other objects, advantages, features, and characteristics of the invention
17 will be apparent from the following description of the preferred embodiments, considered
18 along with the accompanying drawings.

19 **BRIEF DESCRIPTION OF THE DRAWINGS.**

20 It is believed that the present invention will be better understood from the following
21 detailed description taken in conjunction with the accompanying drawings in which the
22 numerals represent identical elements and wherein:

1 **Figure 1** is a three dimensional perspective of one embodiment of the inventive
2 stoma dressing.

3 **Figure 1A** is a top plan view of the inventive stoma dressing of **Figure 1**.

4 **Figure 1B** is a cross section side view of the inventive stoma bandage taken along
5 the line A-A, in **Figure 1A**.

6 **Figure 2** is a three dimensional perspective of another embodiment of the inventive
7 stoma dressing.

8 **Figure 2A** is a top plan view of the inventive stoma dressing of **Figure 2**.

9 **Figure 3** is a three dimensional perspective of still another embodiment of the
10 inventive stoma dressing.

11 **Figure 3A** is a top plan view of the inventive stoma dressing of **Figure 3**.

12 **Figure 3B** is a cross section side view of the inventive stoma bandage taken along
13 the line C-C, in **Figure 3A**.

14 **Figure 4** is a three dimensional perspective of yet another embodiment of the
15 inventive stoma dressing.

16 **Figure 4A** is a top plan view of the inventive stoma dressing of **Figure 4**.

17 **Figure 5** is a three dimensional perspective of another embodiment of the inventive
18 stoma dressing.

19 **Figure 5A** is a top plan view of the inventive stoma dressing of **Figure 5**.

20 **Figure 5B** is a cross section side view of the inventive stoma bandage taken along
21 the line B-B, in **Figure 5A**.

22 **LIST OF ELEMENTS AND THEIR RESPECTIVE IDENTIFYING NUMERALS**

23 **NO ELEMENT**

1	10	inventive stoma dressing
2	20	fluid impermeable layer
3	22	adhesive edge
4	30	absorbent core
5	40	groove
6	42	bead of cream or ointment

7 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

8 Referring more specifically to **Figures 1-5**, they generally depict different
9 embodiments of the inventive stoma dressing in accordance with the present invention at
10 **10**, which can be used by ostomy patients. It comprises an underlying fluid impermeable
11 layer **20** having an adhesive edge **22**; a middle, thick, highly absorbent core **30**, fixedly
12 superimposed on the underlying fluid impermeable layer **20**, and totally encircled by the
13 adhesive edge **22**; a groove **40** running the entire outer perimeter of the middle highly
14 absorbent core **30**; and a bead of skin healing/skin protecting cream or ointment **42** filling
15 the groove **40**. Optionally, an additional top layer or surface layer **32** is superimposed on
16 the middle, thick, highly absorbent core **30**. In use, the optional, additional surface layer **32**
17 sits right against the skin. It acts as a moisture barrier between the skin and the highly
18 absorbent core **30** to keep the skin dry and comfortable.

19 The underlying fluid impermeable layer **20** acts as a support for the highly
20 absorbent core **30**. In use, it sits right against the patient's undergarments or clothes. It acts
21 as a liquid impermeable, moisture penetrable barrier between the absorbent core **30** and the
22 garments of the ostomy patient, keeping the ostomy patient dry and comfortable, while
23 simultaneously allowing the patient's skin to breath, and preventing the growth of bacteria.

1 As a result it can be made, or thermally formed, using any process currently disclosed in
2 the prior art, or to be disclose in the future, of any material, or combination of materials,
3 and have any structure that will produce a fluid impermeable but moisture penetrable thin
4 layer or sheet, that can act as a moisture barrier between the absorptive core **20** and the
5 ostomy patients' garments, while at the same time being permeable to vapor or moisture.
6 By way of example, some of the materials that could be used to form the impermeable
7 layer **20**, can include but are not limited to, vinyl, polyethylene, polyvinylchloride, mylar
8 sheeting, or any combination of cellulose and manmade materials or fibers. Optionally, it
9 may also be made of silicon using SAFETAC soft silicone technology.

10 The underlying fluid impermeable layer **20** has an outer perimeter provided with
11 adhesive to form an adhesive edge **22**. The adhesive must be strong enough to allow for the
12 tight, secure but removable adhesion of inventive stoma bandage **10** to the patient's skin,
13 on the area surrounding the patient's stoma. The adhesive could be any adhesive selected
14 from the group of adhesives used in the prior art in connection with medical tape, wound
15 dressings and such currently available or to become available, which is incorporated in its
16 totality, by reference, as if more fully set forth herein. Alternatively the adhesive edge
17 could be formed using SAFETAC® soft silicone technology, because it will permit for the
18 gentle adhesion to the surrounding skin, minimize trauma and pain on removal and protect
19 against the risk of maceration. Optionally, the adhesive edge **22** could be covered with a
20 protective liner which can be removed when the stoma dressing **10** is prepared for
21 application over the patient's stoma.

22 As was set forth above and as shown in **Figures 1-5**, the absorbent core **30** is
23 fixedly mounted on the fluid impermeable layer **20**. It is made of a highly absorbent
24 material capable of absorbing human exudates such as blood, puss, discharge and urine.
25 Such highly absorbent material can be selected from the group of highly absorbent

1 materials currently available, or to become available, in the prior art for use in sanitary and
2 incontinence pads, and incontinent undergarment technology, including but not limited to
3 polyester, cotton fibers, rayon fibers, gel forming chemicals, silicon and so on. The
4 preferred material will have integrity when wet. This highly absorptive material must wick
5 bodily fluid away from the skin preventing moisture and bacteria from maintaining contact
6 with the patient's skin. Optionally it could be provided with odor neutralizing perfumes or
7 technology currently available, or possible available in the future, which is hereby
8 incorporated in its totality as if more fully set forth herein.

9 The absorbent core **30** rises above the underlying fluid impermeable layer **20** and is
10 of sufficient dimensions and thickness such that it allows for the absorbance of stoma
11 exudates for more than just a few hours. The outer perimeter of the absorbent core **30**, in
12 turn is provided with a groove **40** using any of the prior art groove forming prior art
13 technology currently available, or to become available in the future, which is incorporated
14 in its totality, as if more fully set forth herein.

15 The groove **40** has an inner wall and an outer wall. It runs the entire length of the
16 absorbent core **30**'s outer perimeter. It functions as a receptacle for a bead of skin
17 protectant/skin healing cream or ointment **42**, its inner and outer walls containing the bead
18 of cream or ointment therein, away from the adhesive edge **22** of the fluid impermeable
19 layer **20**, until the inventive stoma bandage **10** is used. In use, while the adhesive edge **22**
20 of the stoma dressing **10** is gently pressed and adhered on the skin surrounding the patient's
21 stoma, the bead of cream or ointment in the groove spreads on the patient's skin around the
22 outer perimeter of the middle absorbent core, to create a skin area that is protected from the
23 stoma effluents without interfering with the adhesive properties of the outer adhesive edge
24 of the dressing.

25 As was discussed in the prior art above, the use of any oil containing, or greasy

1 feeling cream or ointment is counter-indicated in ostomy type devices because it interferes
2 with the proper adhesion of the ostomy devices to the area of the skin surrounding the
3 patient's stoma. In the stoma dressing **10** of the present invention, the location of the
4 groove **40** on the outer perimeter of the absorbent core **30**, the placement of the bead of
5 cream or ointment within the groove, the containment of the bead **42** within the walls of
6 the groove **40**, and the height of the groove's walls within the thick absorbent core **30**,
7 allows the cream or ointment to spread only after the adhesive edge is pressed onto the
8 skin, without significant interference with the adhesion capabilities of the adhesive edge.
9 Further the spread of cream or ointment forms a hydrophobic skin barrier, which
10 completely encircles the absorbent core **30** and the stoma it covers during use. This
11 hydrophobic skin barrier prevents the stoma exudates from migrating to and under the
12 adhesive edge **22**, thereby preventing the stoma dressing **10** of the present invention from
13 falling off.

14 The creams of ointments that can be used to fill the groove **40** are chosen from the
15 group of creams and ointments currently available, or might become available in the future
16 for the treatment of skin breakdowns, irritations, rashes and injuries, and the soothing
17 thereof. Such creams and ointments can include but are not limited to dimethicone
18 creams and ointments; lanolin based creams and ointments; aloe vera creams and
19 ointments, and zinc oxide creams and ointments.

20 There is no question that the stoma dressing **10** of the present invention as
21 described herein above, accomplishes all of its objectives. It is highly absorbent and
22 effective in preventing the soiling of the patients' clothing. In practice, the stoma dressing
23 **10** of the present invention was able to absorb urine for as much as 4-5 hours after
24 catheterization of the internal urostomy pouch, allowing its user to resume all of her regular
25 activities including taking long trips, without any accidents and without necessitating the

1 change of clothes. Its skin barrier created after its application over the stoma promotes the
2 healing of and protects the skin around the stoma, thereby preventing injury and infection
3 thereto. It effectively prevents the stoma exudates from migrating to and under the adhesive
4 edges of the stoma dressing **10**, thereby preventing the stoma dressing **10** of the present
5 invention from falling off. Finally, as a result of all of the foregoing, the stoma dressing of
6 the present invention helps patients recapture their quality of life and self-confidence, and
7 restore their mental health and well being.

8 While particular embodiments of the invention have been illustrated and described
9 in detail herein, they are provided by way of illustration only and should not be construed
10 to limit the invention. Since certain changes may be made without departing from the scope
11 of the present invention, it is intended that all matter contained in the above description, or
12 shown in the accompanying drawings be interpreted as illustrative and not in a literal sense.
13 Practitioners of the art will realize that the sequence of steps and the embodiments depicted
14 in the figures can be altered without departing from the scope of the present invention and
15 that the illustrations contained herein are singular examples of a multitude of possible
16 depictions of the present invention.

17 Accordingly, I claim:

1 1. A Stoma dressing for use by ostomy patients comprising an underlying
2 fluid impermeable layer having an adhesive edge; a highly absorbent core fixedly
3 superimposed on said underlying fluid impermeable layer, and totally encircled by said
4 adhesive edge; a groove running the entire outer perimeter of said highly absorbent core
5 and containing a bead of skin healing and skin protecting composition.

6 2. The Stoma dressing according to claim 1, wherein said skin healing and
7 skin protecting composition is a skin cream.

8 3. The Stoma dressing according to claim 1, wherein said skin healing and
9 skin protecting composition is an ointment.

10 4. The Stoma dressing according to claim 2, further comprising a moisture
11 barrier layer fixedly superimposed on said highly absorbent core.

12 5. The Stoma dressing according claim 3, further comprising a moisture
13 barrier layer fixedly superimposed on said highly absorbent core.

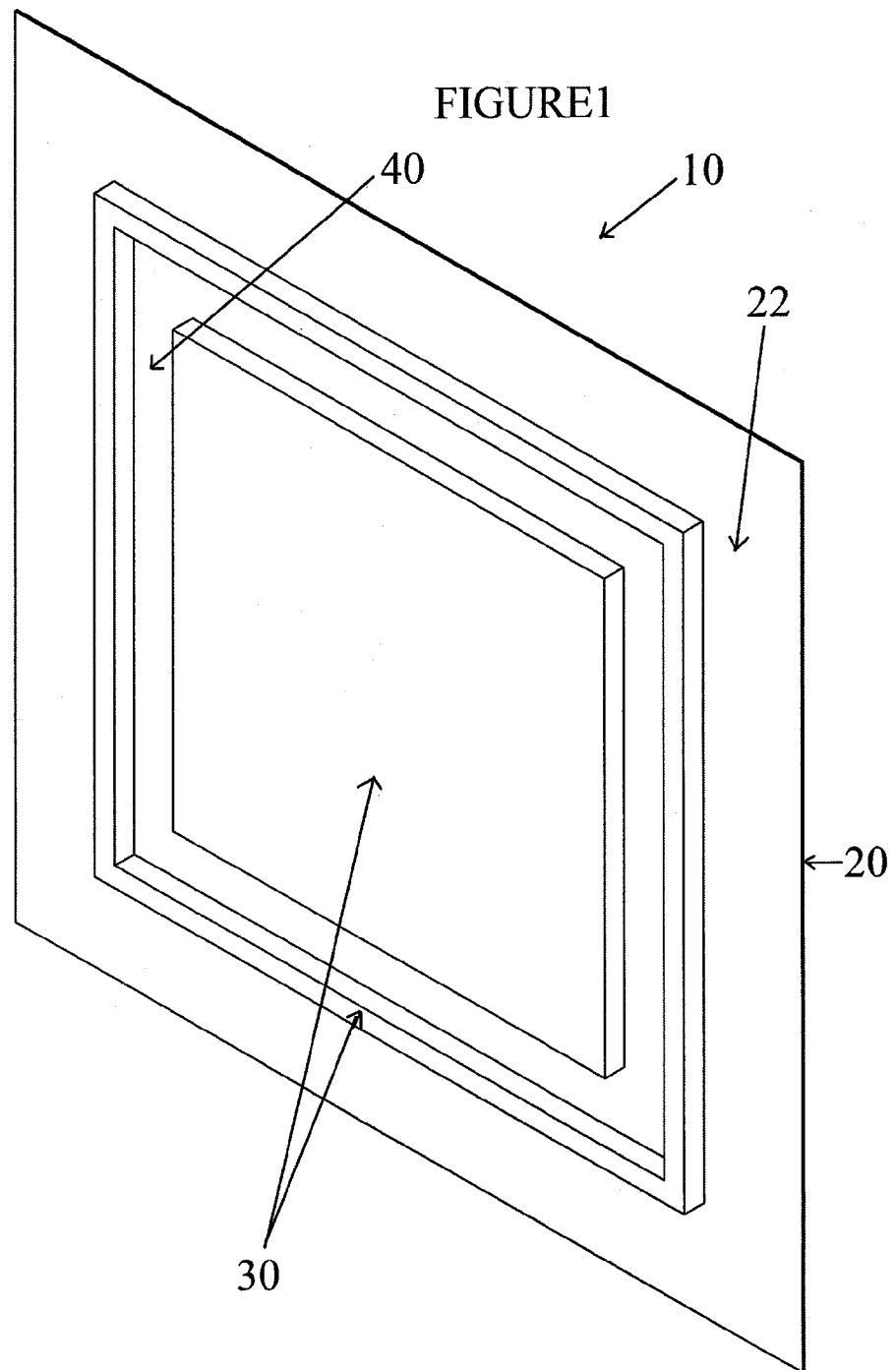
14 6. The process of an ostomy patient using a stoma dressing comprising the
15 following steps:

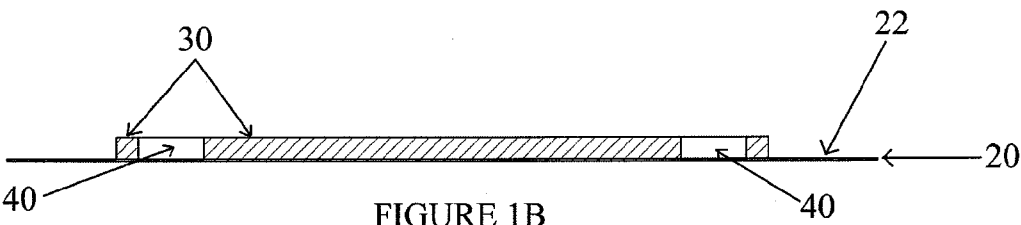
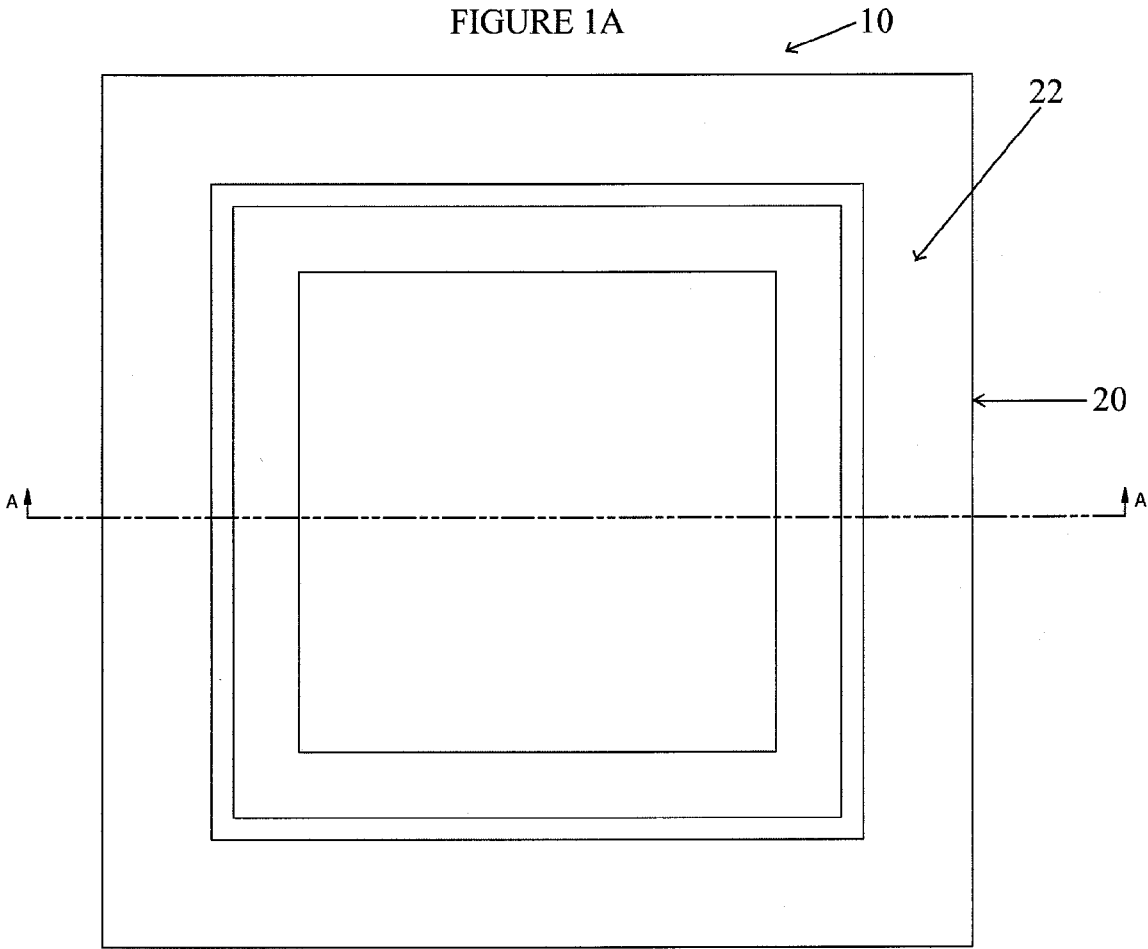
16 a. Securing a stoma dressing which has an underlying fluid impermeable layer
17 having an adhesive edge; a highly absorbent core fixedly superimposed on said underlying
18 fluid impermeable layer, and totally encircled by said adhesive edge; and a groove running
19 the entire outer perimeter of said highly absorbent core, said groove containing a bead of
20 skin healing and skin protecting composition;

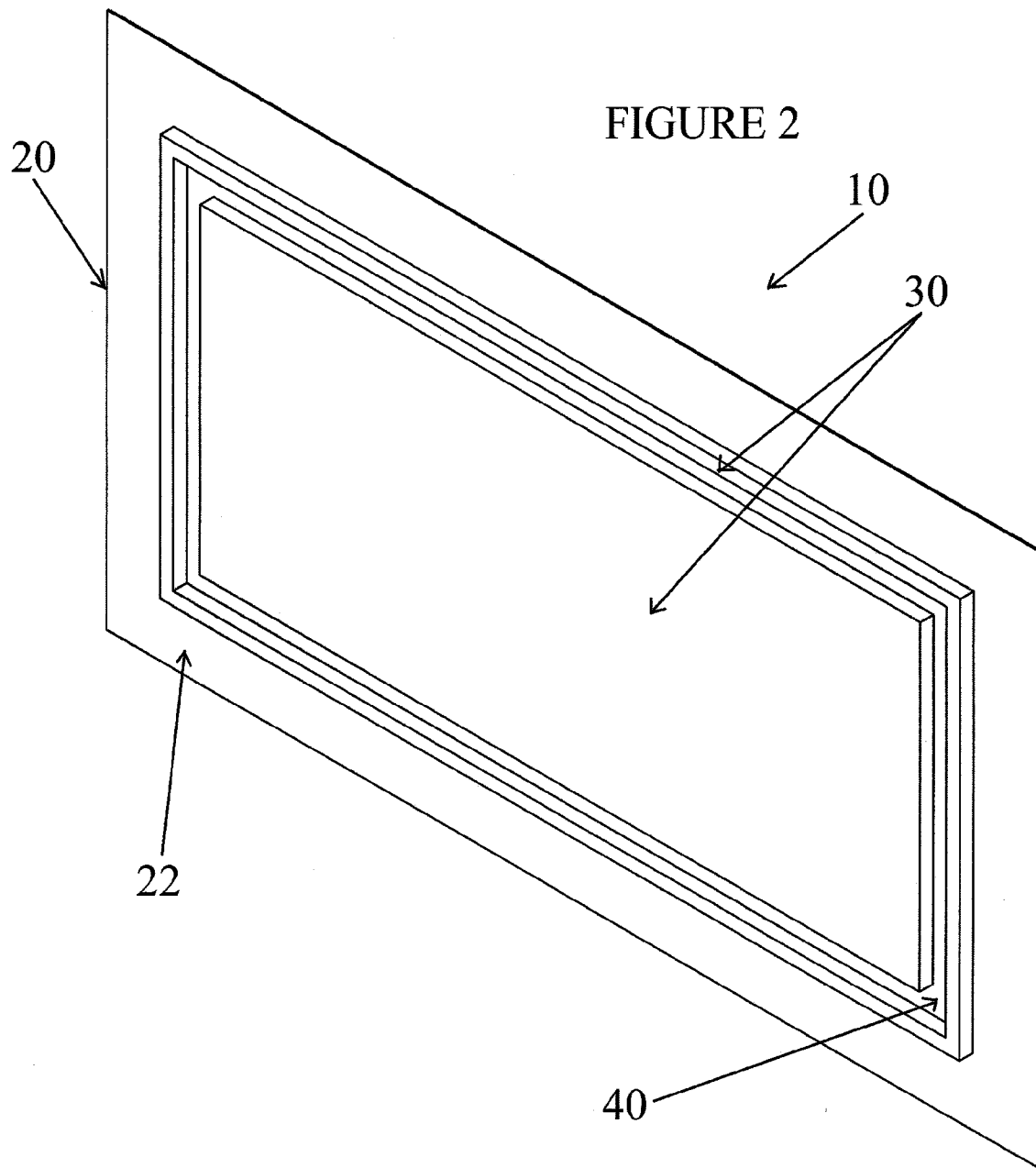
21 b. Placing the stoma dressing over the ostomy patient's stoma in a manner that
22 the top of said highly absorbent core and said adhesive edge of said fluid impermeable
23 layer face the skin and stoma of the patient;

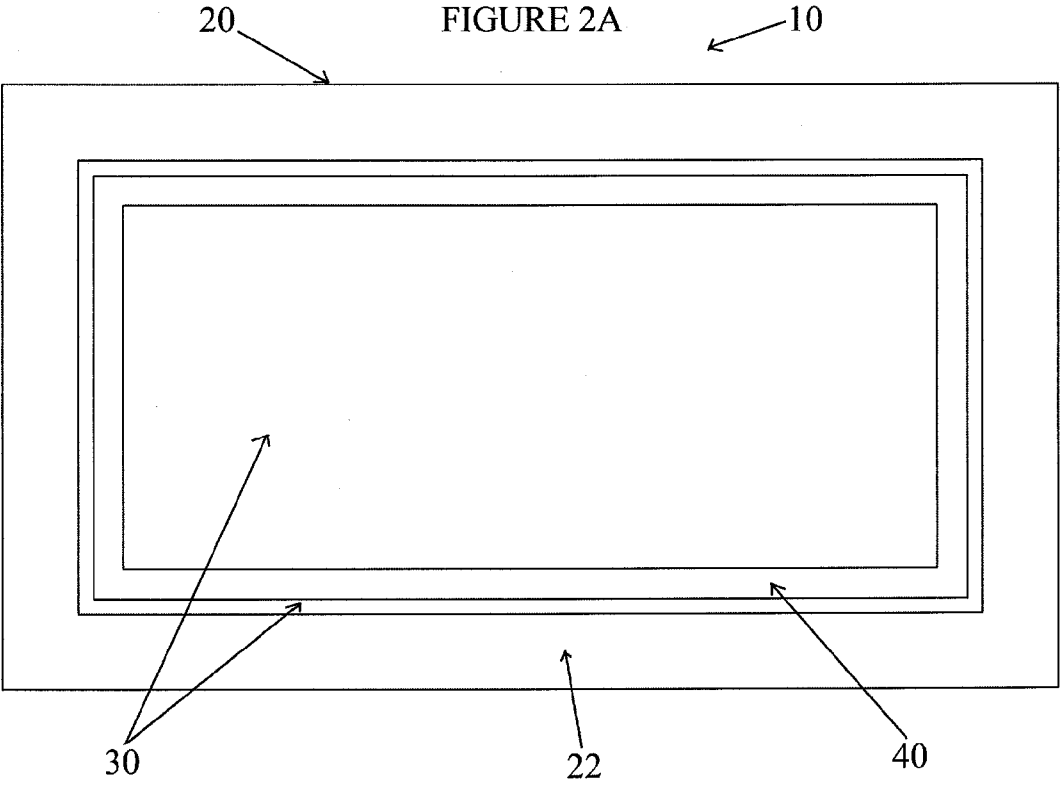
24 c. lightly pressing against the patient's peri-stomal skin such that said adhesive
25 edge adheres to the patient's skin, and the bead of said skin healing and skin protecting

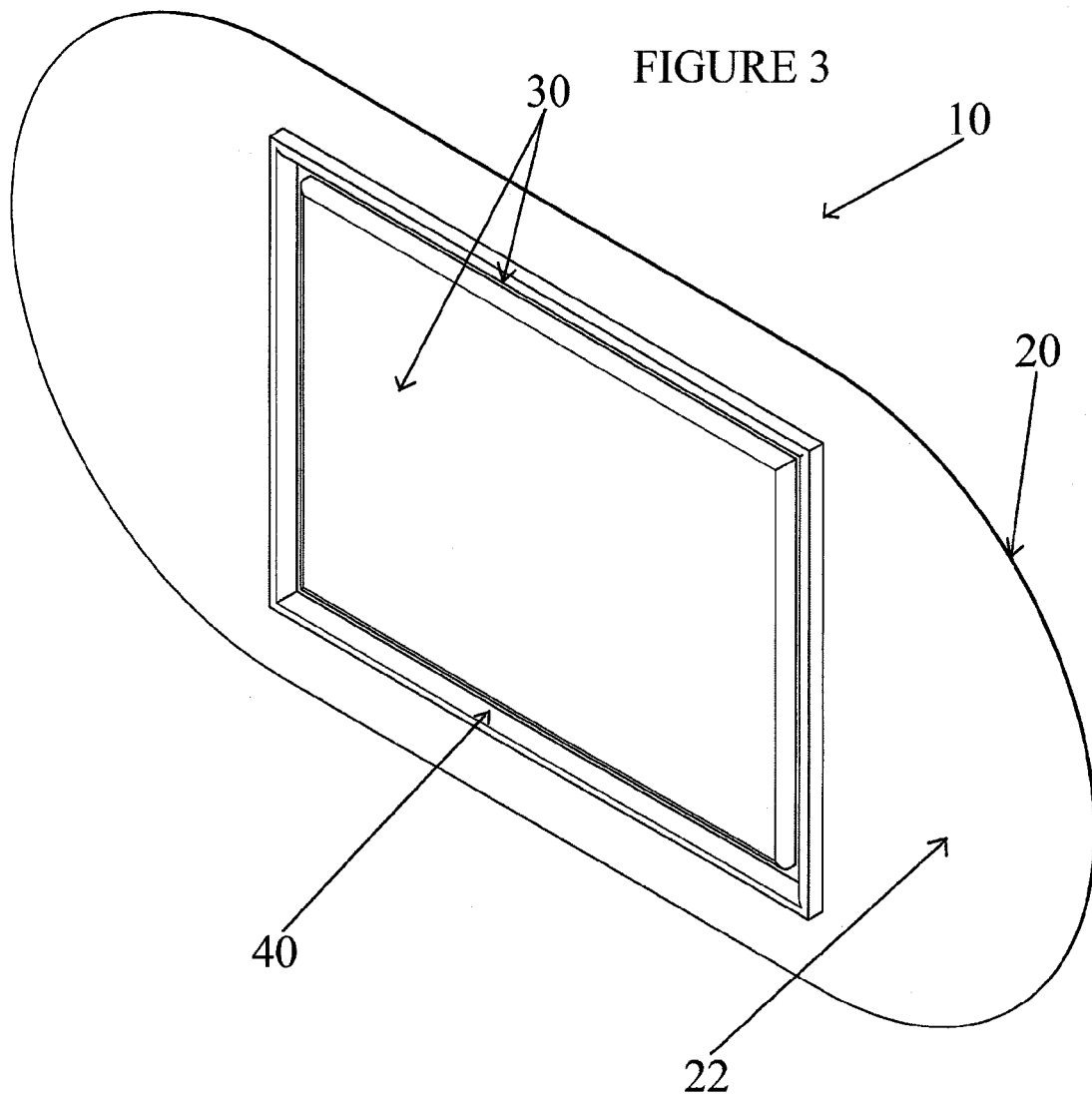
- 1 composition spreads on the patient's skin around the outer perimeter of said middle
- 2 absorbent core, to create a skin area that is protected from the stoma effluents without
- 3 interfering with the adhesive properties of said adhesive edge of said stoma dressing.

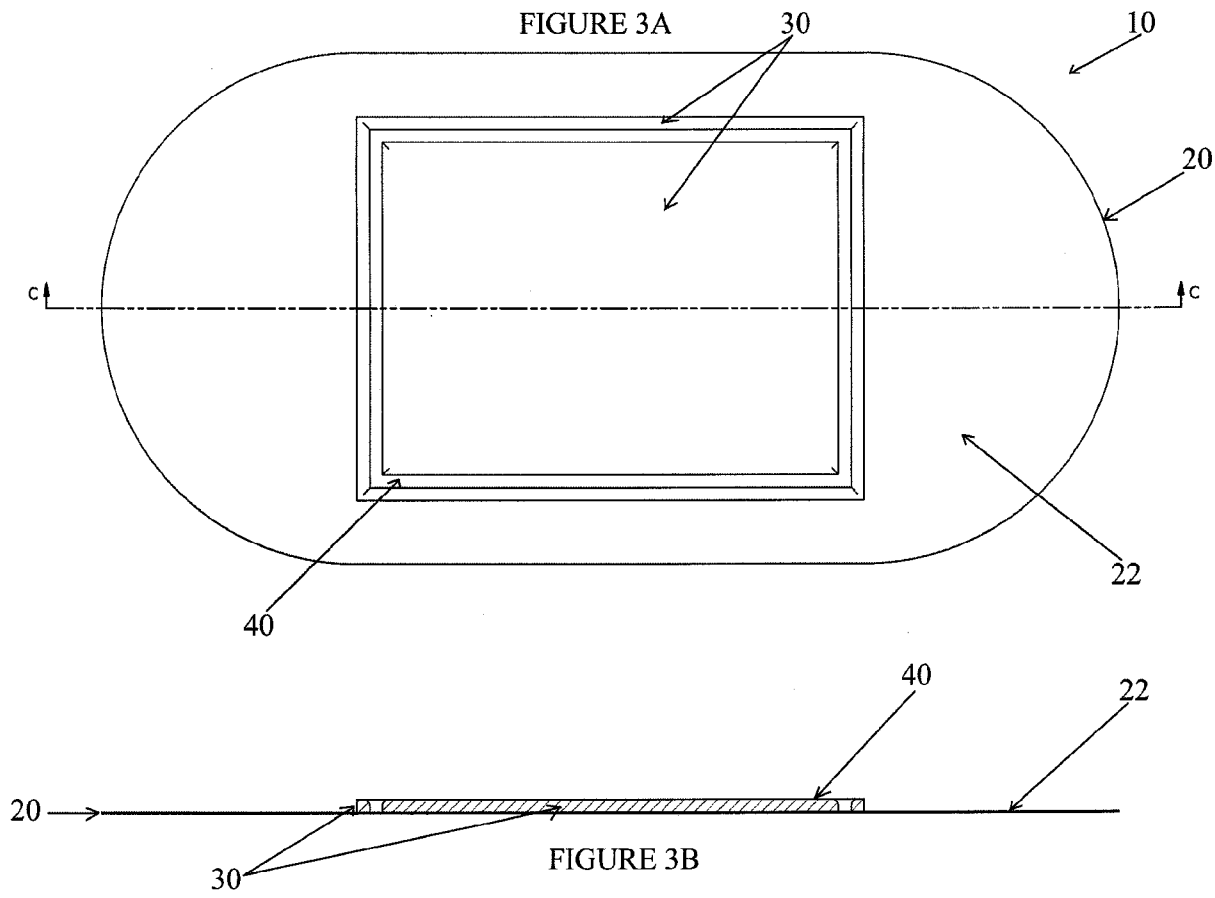


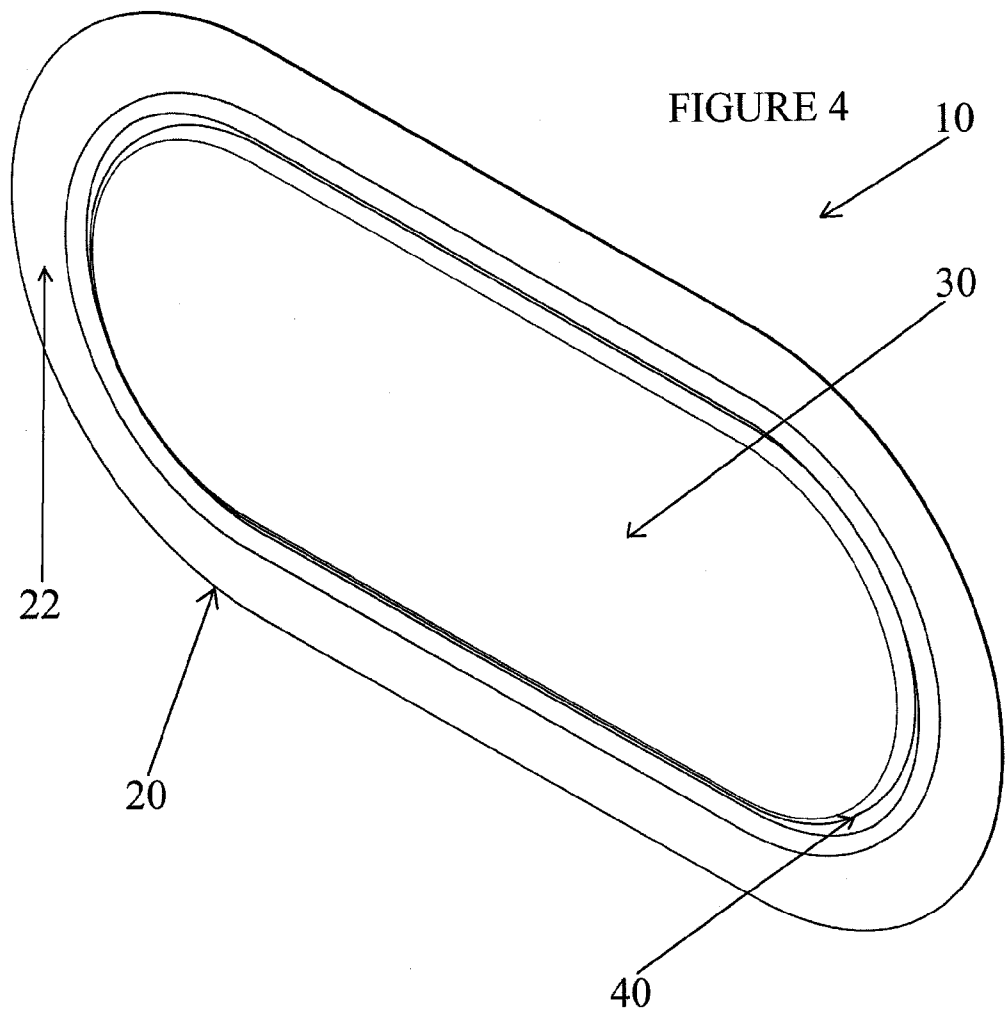


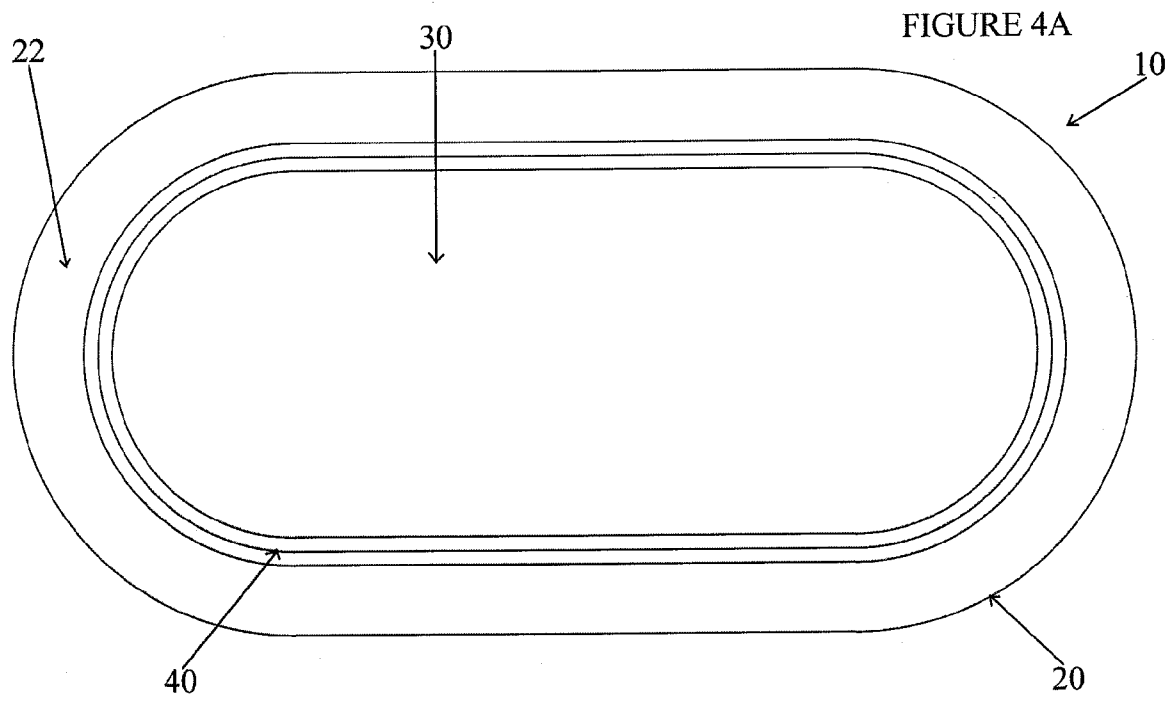


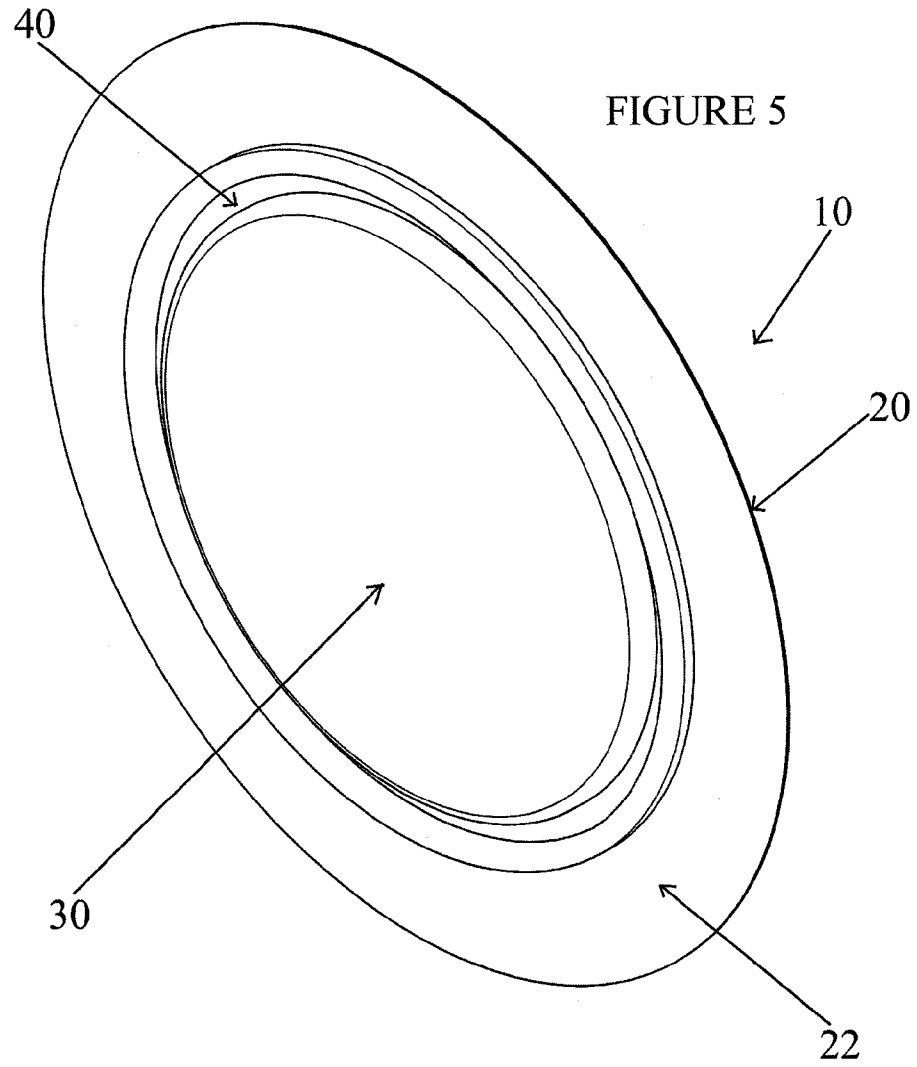












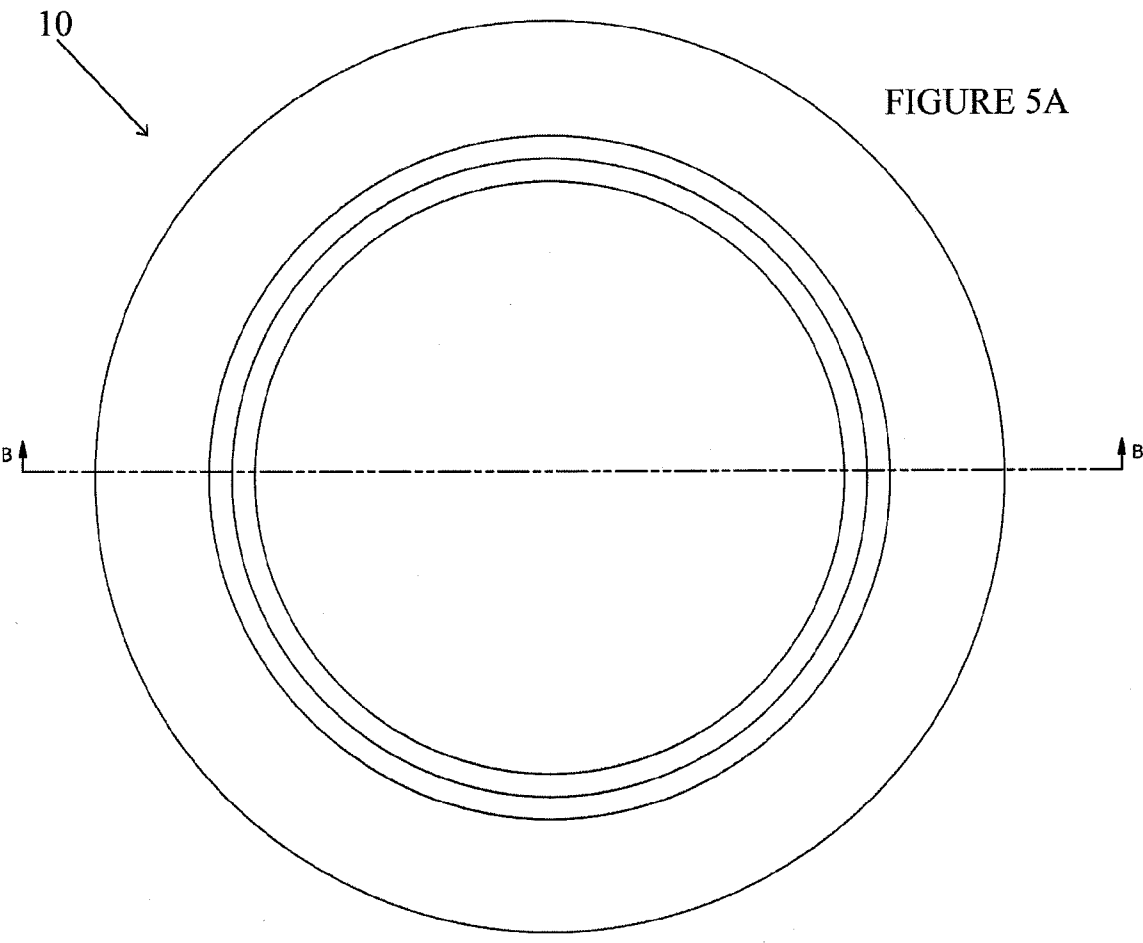


FIGURE 5A

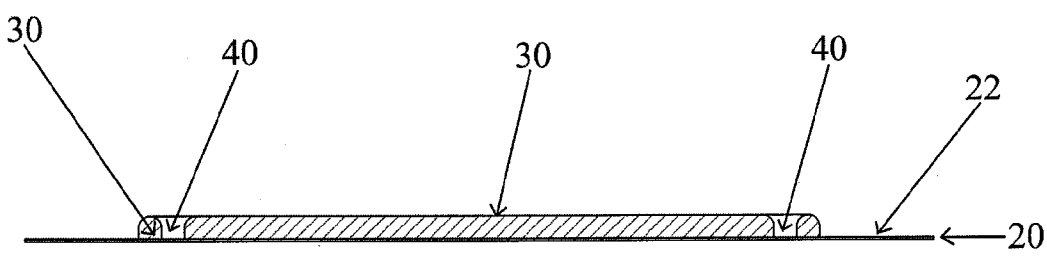


FIGURE 5B

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 17/49707

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61F 5/445, A61F 5/443, A61F 5/44 (2017.01)

CPC - A61F 5/445, A61F 5/4401, A61F 5/443, A61F 5/44, A61F 13/0253, A61L 15/44, A61L 15/42, A61L 15/16, A61F 2013/00285, A61F 13/00

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)

See Search History Document

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

See Search History Document

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

See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2016/0199230 A1 (LIGHTSIDE MD, LLC), 14 July 2016 (14.07.2016), entire document, especially Fig. 1; para [0020]-[0024], [0171], [0181]-[0182], [0196]-[0199], [0306], [0323] and [0395]	1-6
Y	US 8,759,602 B2 (Buckman et al.), 24 June 2014 (24.06.2014), entire document, especially Fig. 16; col 16, ln 41 to col 18, ln 38	1-6
A	US 7,619,130 B2 (Nielsen et al.), 17 November 2009 (17.11.2009), entire document	1-6
A	US 2006/0228318 A1 (Fabo), 12 October 2006 (12.10.2006), entire document	1-6
A	US 2013/0274696 A1 (Lam), 17 October 2013 (17.10.2013), entire document	1-6
A	US 4,990,144 A (Blott), 05 February 1991 (05.02.1991), entire document	1-6
A	US 8,211,073 B2 (Dove et al.), 03 July 2012 (03.07.2012), entire document	1-6

☐ 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

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"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

25 October 2017

Date of mailing of the international search report

16 NOV 2017

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