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(54) **DRAINABLE OSTOMY POUCH WITH INTEGRATED CLOSURE**
ENTLEERBARE OSTOMIEBEUTEL MIT INTEGRIERTEM VERSCHLUSS
POCHE STOMIQUE VIDABLE POURVUE D'UNE FERMETURE

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EP 1 496 820 B9

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Description

[0001] The present invention relates to a drainable ostomy pouch comprising a first or proximal and a second or distal side wall of flexible sheet material sealed to each other for defining a cavity therebetween for receiving human stomal discharge through an aperture in said proximal side wall and an elongate drainage portion extending downwardly in a longitudinal direction thereof and ending in a drainage opening extending transversely to said longitudinal direction.

[0002] In connection with the use of such ostomy pouches, several considerations are of great importance to the quality of life of the persons utilizing the pouches. The pouches should be easy to drain without risking soiling of clothes or the surroundings, they should be easy to close securely after being drained and they should be amenable to being cleaned after drainage and before closing again such that the risk of unpleasant odours is substantially reduced.

[0003] Many different solutions concerning the closing, cleaning and drainage operations have been proposed and implemented. These solutions all have serious disadvantages regarding security of the closure, requirements to dexterity often not at hand for elderly persons, difficult cleaning procedures, and so on.

[0004] UK patent application No. GB 2 000 683 discloses a drainable ostomy pouch of the type in reference having a bar of relatively rigid polymeric material bonded to the outer surface of the distal side wall at the bottom of the drainage portion adjacent and along a drainage aperture extending transversely to the longitudinal direction of the drainage portion. This bar is utilized to facilitate folding of the drainage portion in said longitudinal direction until a transversely extending strip of Velcro attached to the proximal side wall can be engaged by a corresponding strip of Velcro located on a transversely extending flap attached to said distal wall.

[0005] The drainage aperture and the area surrounding it are difficult to clean because of the thin proximal wall film not being easy to locate and separate from the bar for cleaning and removing any elongate material between said film and the bar. Furthermore, when folding the drainage portion upwards the end of the proximal wall film may be displaced upwards and wrinkled thereby increasing the risk of a deficient closure with leakage occurring along said wrinkles.

[0006] WO 02/102288, a document which falls under the terms of Art. 54(3) EPC, discloses an ostomy pouch which differs from the present pouch by strips holding the opening normally open.

[0007] One of the objects of the present invention is to provide a drainable ostomy pouch where the cleaning of the drainage aperture and the region surrounding it is facilitated and where the folding procedure is such that a secure and tight coil is formed with no risk of formation of a leakage passage along wrinkles of the proximal wall film.

[0008] According to the invention, this object is achieved by the pouch comprising a first or proximal and a second or distal flexible stiffening strip of relatively stiff material such as PET, nylon, high density polyethylene, low density polyethylene or polypropylene extending immediately adjacent to and along said drainage opening and being attached for instance by heat sealing or adhesion to the outer surface of said first and second side walls, respectively, of said drainage portion, the pouch further comprising securing means for securing in coiled condition a coil comprising said first and second stiffening strips as well as the corresponding area of the first and second side walls of said drainage portion rotated upwards at least two times, preferably three times.

[0009] Hereby, the cleaning may be performed easily and efficiently by pressing the two stiffening strips against one another to press out any material therebetween such that it can be cleaned away by wiping the superimposed edges of the strips adjacent the drainage aperture for instance with a tissue. Any elongate material between the strips that cannot be pressed out may be removed by separating the strips that are relatively easy to separate compared to separating a thin film from a strip. During the folding process there is no danger of wrinkles forming in the proximal film near the drainage aperture because it is held flat by the attached stiffening strip.

[0010] In the currently preferred embodiment of an ostomy pouch according to the invention, said securing means comprise a securing strip of sheet material having a first and a second securing strip surface and a first and a second securing strip longitudinal edge, said securing strip being attached to the outer surface of said first pouch side wall in a substantially parallel relationship with said drainage opening by means of an attachment zone of said first securing strip surface extending along and adjacent said first securing strip longitudinal edge, an area of said securing strip second surface being covered by a first part of an interlocking means for cooperating with a second part of a corresponding interlocking means provided on the outer surface of said second pouch wall.

[0011] Hereby, said attachment zone will lie under the coil when the coil is locked beneath the flap thereby affording a more stable securing of the coil under the flap. Furthermore because of the resulting fold between the attachment zone and the rest of the flap, the flap will tend to project outwards when the coil is being formed by rotating the stiffening strips and therefore it is easy to grip the flap to lock the coil.

[0012] In the currently preferred embodiment, a gripping tab for being gripped by fingers of a hand projects from said second securing strip longitudinal edge. This facilitates the disengagement of the two interlocking means when the drainage portion is to be unfolded for emptying the pouch.

[0013] Preferably, the edge of said attachment zone remote from said first securing strip longitudinal edge is spaced from said drainage opening by a distance substantially equal to a multiple, preferably three, of the width

of the widest of said first and second stiffening strips. Hereby the coil will fit snugly and tightly adjacent the fold separating the attachment zone and the rest of the flap thereby affording a more stable securing of the coil under the flap.

[0014] Advantageously, the ostomy pouch may further be provided with a third intermediate wall of flexible sheet material arranged between said first and second side walls for dividing said cavity into two compartments and ending at a transversely extending bottom edge located between said first and second stiffening strips and spaced from said drainage opening, preferably by approximately half the width of the narrowest of said first and second stiffening strips.

[0015] By arranging said bottom edge at a distance from the bottom of the drainage portion, the bottom edge will not interfere with the cleaning process, but by leaving said bottom edge between the stiffening strips it is avoided that a leakage may develop between said two compartments because of displacement and/or wrinkling of the intermediate wall.

[0016] Preferably, said intermediate wall is provided at or near its upper end with an opening for the passage of flatus gasses between said compartments.

[0017] Advantageously, the two side walls of the drainage portion may be attached to each other along the longitudinal edges thereof by means of edge seams of heat sealing or adhesive, and at least one of said stiffening strips may extend beyond one of said edge seams. Hereby it is obtained that the stiffening strips will flex away from one another for controlling the drainage rate and for cleaning purposes if pressure is applied to the ends thereof in the longitudinal direction of the strips because of a flexing torque developed with said one of said seams as a fulcrum.

[0018] Said proximal stiffening strip may be configured such that at least one of the two opposed end portions thereof slopes in the distal direction and/or said distal stiffening strip may be configured such that at least one of the two opposed end portions thereof slopes in the proximal direction thereof. Flexing torques for flexing the stiffening strips away from one another will develop when pressure is applied to the end portions of the sloped portions in the longitudinal direction of the strips.

[0019] The entire length of said sloped end portion may extend beyond the corresponding edge seam of the drainage portion, and said sloped portion may be substantially rectilinear in the longitudinal direction of the corresponding stiffening strip, or said sloped portion may be arcuate in the longitudinal direction of the corresponding stiffening strip.

[0020] Preferably, said proximal stiffening strip is provided with a single one of said sloped end portions or extensions located at one end of said drainage opening and said distal stiffening strip is provided with a single one of said sloped end portions or extensions located at the opposite end of said drainage opening. Hereby a substantially symmetrical flexing of the stiffening strips away

from one another is obtained when said longitudinal pressure is applied.

[0021] Advantageously, at least one of said stiffening strips may be curved in the longitudinal direction thereof such that the surface of said stiffening strip attached to the corresponding side wall is concave in the longitudinal direction of said stiffening strip. Hereby an inherent tendency of the stiffening strips to flex away from one another under said pressure applied longitudinally to the ends thereof is built into the strips.

[0022] Advantageously, a gripping tab of flexible sheet material may be attached to the outer surface of the distal and/or proximal side wall or stiffening strip in the region near said drainage opening. Hereby a very effective means is provided for separating the stiffening strips for cleaning and flexing purposes.

[0023] In the following, the invention will be explained more in detail in connection with various embodiments thereof shown, solely by way of example, in the accompanying drawings, where:

Figs. 1 and 2 are schematic plan views of the proximal and distal sides, respectively, of a currently preferred embodiment of a pouch according to the invention,

Fig. 3 is a schematic enlarged scale cross-sectional view of the elongate drainage portion of the pouch of Figs. 1-2 taken along line A-A in Figs. 1 and 2,

Fig. 4 is a view similar to Fig. 3 of a second embodiment of a pouch according to the invention,

Fig. 5 is a schematic enlarged scale cross-sectional view taken along line B-B in Fig. 3,

Figs. 6 and 7 are a schematic end view and plan view, respectively, of a third embodiment of a pouch according to the invention, the end view in Fig. 6 being taken along line A-A in Fig. 7, and

Figs. 8 and 9 are a schematic plan view and end view, respectively, of a fourth embodiment of a pouch according to the invention, the end view in Fig. 9 being taken along line A-A in Fig. 8.

[0024] The ostomy pouch according to the invention may be part of a one-piece or of a two-piece ostomy appliance.

[0025] Referring now to Figs 1-3, the currently preferred embodiment of an ostomy pouch according to the invention comprises three sheets or films of a liquid and gas impermeable flexible material, a body side or proximal film 1, an opposed or distal film 2 and an intermediate film 3 having a bottom edge 4 and dividing the pouch into a flatus gas chamber 3a and a faeces chamber 3b.

[0026] An elongate drainage portion ending in a drainage opening or outlet 5 defined by the lower ends of films

1 and 2 extends downwards from the main portion of the pouch,

[0027] A proximal stiffening strip 6 and a distal stiffening strip 7 of a relatively stiff, flexible plastic material such as PET, nylon, HDPE or LDPE are attached to the outer surfaces of the lower ends of the films 1 and 2, respectively, and extend immediately adjacent and along the entire length of the drainage opening 5.

[0028] The distance of the bottom edge 4 of the intermediate film 3 from the discharge aperture 5 is approximately half the width of strips 6 and 7. A face plate 8 of a skin friendly adhesive barrier material is attached to film 1. The face plate 8 serves to attach the pouch to the peristomal skin surface of a wearer of the ostomy pouch in a manner well known in the art.

[0029] The face plate 8 and the film 1 to which the face plate is attached are provided with aligned stoma-receiving apertures 8a or, alternatively, with aligned starter openings which may be enlarged at the time of application by cutting with scissors, all as well known in the art. Also, intermediate film 3 is provided at or near its upper limits with an opening 8b for allowing flatus gasses to pass from the faeces chamber 3b to the flatus gas chamber 3a while at same time preventing or restraining the passage of faecal material from chamber 3b to chamber 3a, as shown and described in US patent 5,690,623.

[0030] A strip 9 of an interlocking means such as Velcro (hook or loop portion), DUOTEC from G. Binder GmbH & Co., Germany (interlocking mushroom elements) or well known repeatedly releasable adhesive coatings, is attached to film 1.

[0031] A flap 10 of flexible film material is attached to film 2 by welding or glueing an edge portion 11 of flap 10 to film 2. A strip 12 of a corresponding interlocking means such as Velcro (loop or hook portion), DUOTEC or said repeatedly releasable adhesive coating is attached to the flap 10.

[0032] The flap 10 is shown in different positions in Figs. 1, 2 and in Fig. 3, the position of flap 10 shown in Fig. 3 being rotated in the direction R1 compared to the position of flap 10 shown in Figs. 2 and 1 where the flap 10 abuts the film 2, i.e. being rotated as far as possible in the direction R2. The flap 10 has a gripping tab 13 for being gripped by the user's fingers.

[0033] In use, the discharge portion of the pouch is closed in the following manner after having been emptied through the drainage aperture 5:

[0034] The strips 6 and 7 are pressed together to squeeze any remaining matter out from the area between the strips 6 and 7. If any material between the strips 6 and 7 cannot be pressed out, the strips are pulled or flexed apart so as to be able to access said material for removal. The edges of the strips 6 and 7 constituting the discharge aperture 5 are then wiped clean with a tissue.

[0035] Thereafter the strips 6 and 7 are rotated clockwise in the direction of arrow R3 until strip 7 abuts the area a of film 2. Thereafter the strips 6 and 7 are rotated once more clock-wise until strip 6 abuts area b of film 2.

[0036] Finally, the strips 6 and 7 are rotated one last time clock-wise such that the coil formed by the strips 6, 7 and 9 as well as the portions of films 1, 2 and 3 involved abuts the area c of film 2 with the strip 9 of Velcro or the like located such that the corresponding strip 12 of Velcro or the like can engage it by rotating the flap 10 in the direction R1 until the two Velcro strips 9 and 12 abut and engage each other for locking said coil in the final closed and secured position of the discharge portion.

[0037] In this closed coiled position the upper edge of the coil should preferably fit snugly and tightly in the angle formed between the portion 11 and the rest of the flap 10 such that pressure is exerted thereby on the coil and the portion 11 which is beneficial to the stability of the closure. The rigidity of the strips 6 and 7 is also important for the stability of the closure.

[0038] The angle or fold between the portion 11 and the rest of the flap 10 furthermore affords the advantage that the flap 10 in its relaxed state will tend to be in an open position not abutting film 2 in which it is easy to grip when rolling the discharge portion up.

[0039] When the pouch is to be drained, the flap 10 is gripped by the tab 13 and pulled such that the strips 9 and 12 are disengaged so that the coil can be unrolled by rotating the strips 6 and 7 three times in the counter clock-wise direction.

[0040] The strips 6 and 7 may be used to control the rate of drainage of the pouch by opening and closing the aperture 5 by pressing more or less forcefully on the ends of the strips 6 and 7 in the direction of the arrows R4 so that they flex away from and towards each other, respectively.

[0041] This function is facilitated by configuring the strips 6 and 7 in the manner shown exaggerated in Fig. 5 of the drawings which shows a longitudinal cross section through the strips 6 and 7 in relaxed state illustrating that the strips are manufactured with opposed curvatures which will tend to facilitate the opening of the aperture 5 by finger pressure in the directions R4.

[0042] To facilitate a tight and precise coiling or folding of the drainage portion, the drainage portion may be configured as shown in Fig. 4, where a further strip 14 of relatively rigid and flexible plastic material is adhered to and nearly covers the area a of film 1 while the Velcro strip 9 is wider than in Fig. 3 so that it nearly covers the area b of film 1. Hereby a precise and tight folding of the discharge portion is facilitated so that the best possible closure under the flap 10 is ensured. The thickness of strip 14 may be smaller than the thickness of strips 6 and 7.

[0043] So as to further facilitate precise and tight coiling of the discharge portion, a further strip may be adhered to film 1 nearly covering region c thereof.

[0044] The distance between the bottom edge 4 of intermediate film 3 and the discharge aperture 5 has the advantage that it thereby is easier to separate the three films for cleaning purposes.

[0045] Furthermore, by locating the edge 4 between

the strips 6 and 7 it is ensured that film 3 is held flat without wrinkles and folded just as many times as the films 1 and 2 such that there is no risk of leaks below the intermediate film 3 between the flatus gas chamber 3a and the faeces chamber 3b in the rolled-up closed position of the drainage portion.

[0046] Referring now to Fig. 4, two gripping tabs 15 and 16 are shown with dotted lines, the tab 15 being adhered or heat sealed to film 1 and tab 16 being adhered or heat sealed to strip 7. It is sometimes difficult to separate the strips 6 and 7 for opening the aperture 5 for draining the pouch because of a suction effect between the strips analogous to the adherence of two superimposed glass plates to one another, particularly if the drainage aperture region is moist. In such case tabs 15 and 16 can be used for pulling the strips 6 and 7 apart. The tabs 15 and 16 may both be attached to the strips 6 and 7, respectively, or to films 1 and 2, respectively.

[0047] Referring now to Figs 6 and 7, a proximal strip 20 and a distal strip 21 similar to strips 6 and 7 in Figs. 1-4 are adhered to the films 1 and 2, respectively. One end of each strip 20 and 21 extends beyond longitudinal edge seams 22 and 23, respectively, of the drainage portion with a projecting end portion 24 and 25, respectively, that is angled an angle α in the distal and proximal direction, respectively.

[0048] The ends of strips 20 and 21 opposite the end portions 24 and 25, respectively are located on or immediately adjacent the lateral edge seams 22 and 23, respectively. The start of the angled portions 24 and 25 are located a distance d1 from said seams 22 and 23, respectively, and the ends of angled portions 24 and 25 are located at a distance d2 from said seams 22 and 23, respectively.

[0049] When pressure is applied by fingers to the ends of end portions 24 and 25 in the directions R4, said portions will be deflected to the positions 24a and 25a shown by dotted lines in Fig. 6 and the resultant torque around the fulcrums or pivoting points constituted by the edge seams 22 and 23, respectively, will cause the strips 20 and 21 to flex apart into the positions 20a and 21a, respectively, indicated by dotted lines in Fig. 6.

[0050] The distance d1 mentioned above allows the end portions 24 and 25 to flex without being hindered by abutting the ends of strips 21 and 20, respectively.

[0051] The larger the distance d2 is, the larger is the torque applied to the strips 20 and 21 for a given pressure exerted on said ends of the end portions in the directions R4.

[0052] Experiments have shown that the angle α may be very small and even equal to zero because when applying said pressure in the directions R4 the longitudinal displacement of the strips 20 and 21 relative to each other and the resulting deformation of the edge seams 22 and 23 will bias the end portions 24 and 25 to flex in the desired direction even with a value of α equal to zero. Even with small negative values of α , a flexing torque in the correct direction may be obtained by said pressure de-

pending on the actual geometric configuration of the seams relative to the strips. A certain angling with a positive value of α will, however, ensure that flexing torques in the correct direction will be achieved even with relatively large production tolerances.

[0053] The angled end portions 24 and 25 are shown to be rectilinear, but they may be curved as long as a tendency to flex in the desired direction under said pressure is maintained so as to generate the required torques for flexing the strips 20 and 21.

[0054] The edge seams 22 and 23 and thereby the edges of the drainage portion are shown extending substantially parallel to one another such that the end portions 24 and 25 will not interfere with the rolling up closure operation. The edge seams may taper slightly towards one another from the strips 24 and 25 in the upwards direction so as to further ensure no such interference.

[0055] Referring now to Figs. 8 and 9, stiffening strips 30 and 31 similar to stiffening strips 20 and 21 in Figs 6 and 7 have extended angled and rounded end portions 32,33 and 34,35, respectively. Pressure exerted by fingers on the rounded ends in the directions R4 will produce torques around edge seams 22 and 23 and flex strips 30 and 31 away from each other in a manner similar to the situation for strips 20a and 21 a indicated in Fig. 6 by dotted lines.

Claims

1. A drainable ostomy pouch comprising a first or proximal and a second or distal side wall (1,2) of flexible sheet material sealed to each other for defining a cavity (3a,3b) therebetween for receiving human stomal discharge through an aperture (8a) in said proximal side wall (1) and an elongate drainage portion extending downwardly in a longitudinal direction thereof and ending in a drainage opening (5) extending transversely to said longitudinal direction, a first or proximal and a second or distal flexible stiffening strip (6,7) of relatively stiff material such as PET, nylon, high density polyethylene or low density polyethylene being attached for instance by heat sealing or adhesion to the outer surface of said first and second side walls, respectively, of said drainage portion, wherein said first and second stiffening strips extend immediately adjacent to and along said drainage opening to normally hold the drainage opening flat, and the pouch further comprises securing means (9,10,12) for securing a coil comprising said first and second stiffening strips rotated upwards at least two times, preferably three times.
2. A pouch according to claim 1, wherein said securing means comprise a securing strip of sheet material having a first and a second securing strip surface

and a first and a second securing strip longitudinal edge, said securing strip being attached to the outer surface of said second pouch side wall in a substantially parallel relationship with said drainage opening by means of an attachment zone (11) of said first securing strip surface extending along and adjacent said first securing strip longitudinal edge, an area of said securing strip second surface being covered by a first part of an interlocking means (12) for cooperating with a second part of a corresponding interlocking means (9) provided on the outer surface of said first pouch wall.

3. A pouch according to claim 2, wherein a gripping tab (13) for being gripped by fingers of a hand projects from said second securing strip longitudinal edge.
4. A pouch according to claim 2 or 3, wherein the edge of said attachment zone remote from said first securing strip longitudinal edge is spaced from said drainage opening by a distance substantially equal to a multiple, preferably three, of the width of the widest of said first and second stiffening strips.
5. A pouch according to any of the preceding claims and further provided with a third intermediate wall (3) of flexible sheet material arranged between said first and second side walls for dividing said cavity into two compartments (3a, 3b) and ending at a transversely extending bottom edge (4) located between said first and second stiffening strips and spaced from said drainage opening, preferably by approximately half the width of the narrowest of said first and second stiffening strips.
6. A pouch according to claim 5, wherein said intermediate wall is provided at or near its upper end with an opening (8b) for the passage of flatus gasses between said compartments.
7. A pouch according to any of the preceding claims, wherein the two side walls of the drainage portion are attached to each other along the longitudinal edges thereof by means of edge seams (22,23) of heat sealing or adhesive, and at least one of said stiffening strips has an extension (24,25) extending beyond one of said edge seams.
8. A pouch according to any of the preceding claims, wherein said proximal stiffening strip is configured such that at least one of the two opposed end portions thereof slopes in the distal direction and/or said distal stiffening strip is configured such that at least one of the two opposed end portions thereof slopes in the proximal direction thereof.
9. A pouch according to claim 8, wherein the entire length of said sloped end portion extends beyond

the corresponding edge seam of the drainage portion.

10. A pouch according to claim 9, wherein said sloped portion is substantially rectilinear in the longitudinal direction of the corresponding stiffening strip.
11. A pouch according to claim 9, wherein said sloped portion is arcuate in the longitudinal direction of the corresponding stiffening strip.
12. A pouch according to any of the claims 7-11, wherein said proximal stiffening strip is provided with a single one of said sloped end portions or extensions located at one end of said drainage opening and said distal stiffening strip is provided with a single one of said sloped end portions or extensions located at the opposite end of said drainage opening.
13. A pouch according to any of the preceding claims, wherein at least one of said stiffening strips is curved in the longitudinal direction thereof such that the surface of said stiffening strip attached to the corresponding side wall is concave in the longitudinal direction of said stiffening strip, so that said curvatures tend to facilitate the opening by finger pressure of the aperture (5) in a direction (R4).
14. A pouch according to any of the preceding claims, wherein a gripping tab (15,16) of flexible sheet material is attached to the outer surface of the distal and/or proximal side wall or stiffening strip in the region near said drainage opening.

Patentansprüche

1. Entleerbarer Ostomiebeutel, enthaltend eine erste, oder proximale und eine zweite, oder distale Seitenwand (1, 2) eines flexiblen Folienmaterials, die miteinander verschweißt sind, um einen Hohlraum (3a, 3b) zwischen sich auszubilden, um humane Stoma-Ausscheidungen durch eine Öffnung (8a) in der proximalen Seitenwand (1) aufzunehmen, und einen länglichen Entleerungsabschnitt, der sich nach unten in einer Längsrichtung desselben erstreckt und in einer Entleerungsöffnung (5) endet, die sich quer zu dieser Längsrichtung erstreckt, einen ersten, oder proximalen und einen zweiten, oder distalen, flexiblen Versteifungsstreifen (6, 7) eines relativ steifen Materials, wie etwa PET, Nylon, Polyethylen hoher Dichte oder Polyethylen geringer Dichte, der beispielsweise durch Heißverschweißen oder Adhäsion an der Außenoberfläche der ersten bzw. zweiten Seitenwand des Entleerungsabschnittes angebracht ist, wobei sich der erste und der zweite Versteifungsstreifen unmittelbar benachbart zu und entlang der

- Entleerungsöffnung erstrecken, um im Normalzustand die Entleerungsöffnung flach zu halten, und der Beutel weiterhin Sicherungseinrichtungen (9, 10, 12) enthält, um eine Spirale zu sichern, die den ersten und den zweiten Versteifungsstreifen enthält, die wenigstens zweimal, vorzugsweise jedoch dreimal nach oben gedreht werden.
2. Beutel nach Anspruch 1, bei dem die Sicherungseinrichtungen einen Sicherungsstreifen eines Folienmaterials enthalten, der eine erste und eine zweite Sicherungsstreifenoberfläche sowie einen ersten und einen zweiten Sicherungsstreifenlängsrand enthält, wobei dieser Sicherungsstreifen an der Außenoberfläche der ersten Beutelseitenwand in im wesentlichen paralleler Beziehung zur Entleerungsöffnung mit Hilfe eines Anbringungsbereiches (11) der ersten Sicherungsstreifenoberfläche angebracht ist, die sich entlang und benachbart des ersten Sicherungsstreifenlängsrandes erstreckt, und eine Fläche der zweiten Sicherungsstreifenoberfläche von einem ersten Teil einer Verriegelungseinrichtung (12) bedeckt ist, die mit einem zweiten Teil einer entsprechenden Verriegelungseinrichtung (9) zusammenwirkt, die auf der Außenoberfläche der zweiten Beutelwand vorgesehen ist.
 3. Beutel nach Anspruch 2, bei dem eine Greifflasche (13), die von den Fingern einer Hand gegriffen werden soll, vom zweiten Sicherungsstreifenlängsrand hervorsticht.
 4. Beutel nach Anspruch 2 oder 3, bei dem der Rand des Anbringungsbereiches, der vom ersten Sicherungsstreifenlängsrand entfernt ist, von der Entleerungsöffnung in einem Abstand beabstandet ist, der im wesentlichen gleich einem Vielfachen - vorzugsweise drei - der Breite der größten Breite des ersten und des zweiten Versteifungsstreifens ist.
 5. Beutel nach einem der vorhergehenden Ansprüche und weiterhin versehen mit einer dritten Zwischenwand (3) eines flexiblen Folienmaterials, die zwischen der ersten und der zweiten Wand angeordnet ist, um den Hohlraum in zwei Abteile (3a, 3b) zu teilen, und an einem querverlaufenden unteren Rand (4) endet, der sich zwischen dem ersten und dem zweiten Versteifungsstreifen befindet und von der Entleerungsöffnung vorzugsweise um etwa die Hälfte der Breite der schmalsten Breite des ersten und des zweiten Versteifungsstreifens beabstandet ist.
 6. Beutel nach Anspruch 5, bei dem die Zwischenwand an ihrem oberen Ende oder in der Nähe desselben mit einer Öffnung (8b) versehen ist, um den Durchgang von Flatulenzgasen zwischen den Abteilen zu ermöglichen.
 7. Beutel nach einem der vorhergehenden Ansprüche, bei dem die beiden Seitenwände des Entleerungsabschnittes aneinander entlang der Längsränder desselben mit Hilfe von Randnähten (22, 23) einer Heißverschweißung oder eines Adhäsivs angebracht sind und wenigstens einer der Versteifungsstreifen eine Erweiterung (24, 25) hat, die sich über eine der Randnähte hinaus erstrecken.
 8. Beutel nach einem der vorhergehenden Ansprüche, bei dem der proximale Versteifungsstreifen derart beschaffen ist, dass wenigstens einer der beiden gegenüberliegenden Endabschnitte desselben in der distalen Richtung abgeschrägt ist und/oder der distale Versteifungsstreifen derart beschaffen ist, dass wenigstens einer der beiden gegenüberliegenden Endabschnitte desselben in der proximalen Richtung desselben abgeschrägt ist.
 9. Beutel nach Anspruch 8, bei dem sich die gesamte Länge des abgeschrägten Endabschnittes über die entsprechende Randnaht des Entleerungsabschnittes hinaus erstreckt.
 10. Beutel nach Anspruch 9, bei dem der abgeschrägte Abschnitt im wesentlichen geradlinig in Längsrichtung des entsprechenden Versteifungsstreifens verläuft.
 11. Beutel nach Anspruch 9, bei dem der abgeschrägte Abschnitt in Längsrichtung des entsprechenden Versteifungsstreifens bogenförmig ist.
 12. Beutel nach einem der vorhergehenden Ansprüche 7 bis 11, bei dem der proximale Versteifungsstreifen mit einem/einer einzigen der abgeschrägten Endabschnitte oder der Erweiterungen versehen ist, der/die sich an einem Ende der Entleerungsöffnung befindet, und der distale Versteifungsstreifen mit einem/einer einzigen der abgeschrägten Endabschnitte oder der Erweiterungen versehen ist, der/die sich am gegenüberliegenden Ende der Entleerungsöffnung befindet.
 13. Beutel nach einem der vorhergehenden Ansprüche, bei dem wenigstens einer der Versteifungsstreifen in Längsrichtung desselben derart gekrümmt ist, dass die Oberfläche des Versteifungsstreifens, der an der entsprechenden Seitenwand angebracht ist, in Längsrichtung des Versteifungsstreifens konkav ist, so dass die Krümmungen dazu neigen, das Öffnen der Öffnung (5) in einer Richtung (R4) durch Fingerdruck zu vereinfachen.
 14. Beutel nach einem der vorhergehenden Ansprüche, bei dem die Greifflasche (15, 16) eines flexiblen Folienmaterials an der Außenfläche der distalen und/oder proximalen Seitenwand oder des Versteifungs-

streifens im Bereich in der Nähe der Entleerungsöffnung angebracht ist.

Revendications

1. Poche stomique vidable comprenant une première paroi latérale ou paroi latérale proximale et une seconde paroi latérale ou paroi latérale distale (1, 2) en matériau en feuille flexible scellée l'une à l'autre pour définir une cavité (3a, 3b) entre celles-ci destinée à recevoir une évacuation stomale humaine à travers une ouverture (8a) dans ladite paroi latérale proximale (1) et une partie de vidage allongée s'étendant vers le bas dans une direction longitudinale de celle-ci et terminant dans une ouverture (5) de vidage s'étendant transversalement à ladite direction longitudinale, une première bande de raidissement flexible ou bande de raidissement flexible proximale et une seconde bande de raidissement flexible ou bande de raidissement flexible distale (6, 7) fabriquées à partir d'un matériau relativement rigide tel que le PET, le nylon, le polyéthylène haute densité ou le polyéthylène basse densité étant fixée par exemple par thermoscellage ou adhérence à la surface externe desdites première et seconde parois latérales, respectivement, de ladite partie de vidage, dans laquelle lesdites première et seconde bandes de raidissement s'étendent immédiatement de manière adjacente à ladite ouverture de vidage et le long de celle-ci pour maintenir normalement l'ouverture de vidage plate, et la poche comprend en outre des moyens de fixation (9, 10, 12) destinés à fixer une bobine comprenant lesdites première et seconde bandes de raidissement amenées en rotation vers le haut au moins deux fois, de préférence trois fois.
2. Poche selon la revendication 1, dans laquelle lesdits moyens de fixation comprennent une bande de fixation en matériau en feuille présentant une première et une seconde surfaces de bande de fixation et un premier et un second bords longitudinaux de bande de fixation, ladite bande de fixation étant fixée à la surface externe de ladite première paroi latérale de poche dans une relation sensiblement parallèle avec ladite ouverture de vidage au moyen d'une zone de fixation (11) de ladite première surface de bande de fixation s'étendant le long dudit premier bord longitudinal de bande de fixation et de manière adjacente à celui-ci, une zone de ladite seconde surface de bande de fixation étant recouverte par une première partie de moyens de verrouillage (12) destinés à coopérer avec une seconde partie de moyens de verrouillage (9) correspondant prévus sur la surface externe de ladite seconde paroi de poche.
3. Poche selon la revendication 2, dans laquelle une

languette de préhension (13) destinée à être saisie par les doigts d'une main se projette depuis ledit second bord longitudinal de bande de fixation.

4. Poche selon la revendication 2 ou 3, dans laquelle le bord de ladite zone de fixation distant dudit premier bord longitudinal de bande de fixation est espacé de ladite ouverture de vidage par une distance sensiblement égale à un multiple, de préférence trois, de la largeur de la plus large desdites première et seconde bandes de raidissement.
5. Poche selon l'une quelconque des revendications précédentes et pourvue en outre d'une troisième paroi intermédiaire (3) en matériau en feuille flexible agencée entre lesdites première et seconde parois latérales pour diviser ladite cavité en deux compartiments (3a, 3b) et terminant au niveau d'un bord inférieur (4) s'étendant transversalement situé entre lesdites première et seconde bandes de raidissement et espacées de ladite ouverture de vidage, de préférence par approximativement la largeur de la plus étroite desdites première et seconde bandes de raidissement.
6. Poche selon la revendication 5, dans laquelle ladite paroi intermédiaire est pourvue au niveau ou à proximité de son extrémité supérieure d'une ouverture (8b) pour le passage des flatulences entre lesdits compartiments.
7. Poche selon l'une quelconque des revendications précédentes, dans laquelle les deux parois latérales de la partie de vidage sont fixées l'une à l'autre le long des bords longitudinaux de celle-ci au moyen de coutures de bord (22, 23) de thermoscellage ou d'un adhésif, et au moins une desdites bandes de raidissement présente une extension (24, 25) s'étendant au-delà d'une desdites coutures de bord.
8. Poche selon l'une quelconque des revendications précédentes, dans laquelle ladite bande de raidissement proximale est configurée de telle sorte qu'au moins une des deux parties d'extrémité opposées de celle-ci s'incline dans la direction distale et/ou ladite bande de raidissement distale est configurée de telle sorte qu'au moins une des deux parties d'extrémité opposées de celle-ci s'incline dans la direction proximale de celle-ci.
9. Poche selon la revendication 8, dans laquelle la totalité de la longueur de ladite partie d'extrémité inclinée s'étend au-delà de la couture de bord correspondante de la partie de vidage.
10. Poche selon la revendication 9, dans laquelle ladite partie inclinée est sensiblement rectiligne dans la direction longitudinale de la bande de raidissement

correspondante.

11. Poche selon la revendication 9, dans laquelle ladite partie inclinée est arquée dans la direction longitudinale de la bande de raidissement correspondante. 5

12. Poche selon l'une quelconque des revendications 7 à 11, dans laquelle ladite bande de raidissement proximale est pourvue d'une seule desdites parties d'extrémité inclinées ou d'extensions situées à une extrémité de ladite ouverture de vidage et ladite bande de raidissement distale est pourvue d'une seule desdites parties d'extrémité inclinées ou extensions situées à l'extrémité opposée de ladite ouverture de vidage. 10
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13. Poche selon l'une quelconque des revendications précédentes, dans laquelle au moins une desdites bandes de raidissement est incurvée dans la direction longitudinale de celle-ci de telle sorte que la surface de ladite bande de raidissement fixée à la paroi latérale correspondante est concave dans la direction longitudinale de ladite bande de raidissement, de sorte que lesdites courbures ont tendance à faciliter l'ouverture par la pression du doigt de l'ouverture (5) dans une direction (R4). 20
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14. Poche selon l'une quelconque des revendications précédentes, dans laquelle une languette de préhension (15, 16) d'un matériau en feuille flexible est fixée à la surface externe de la paroi latérale distale et/ou proximale dans la zone proche de ladite ouverture de vidage. 30

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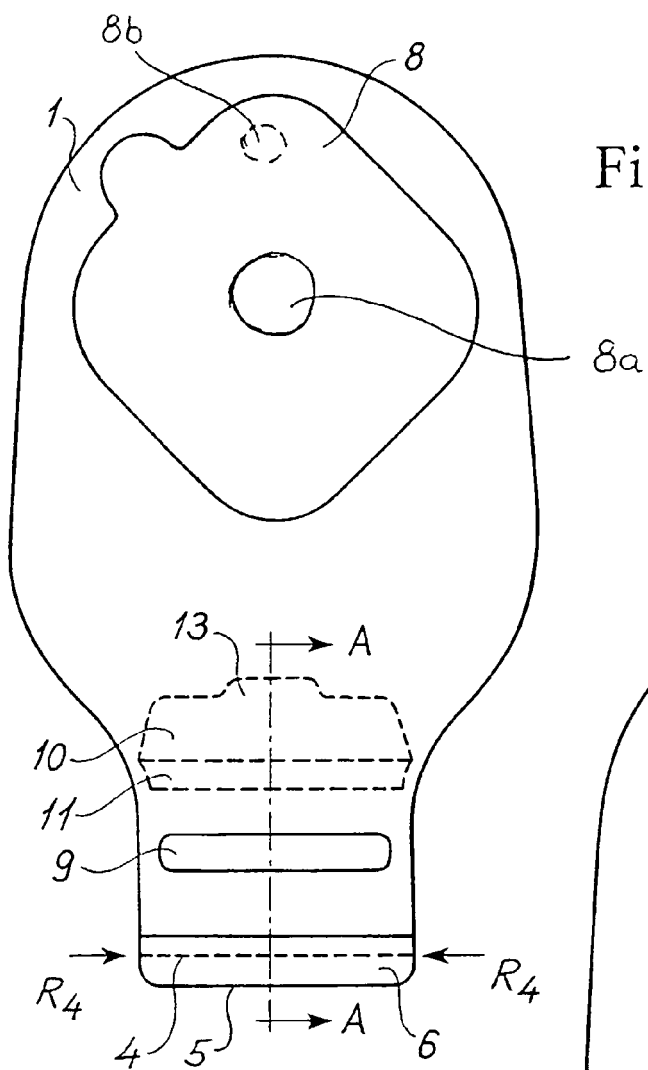
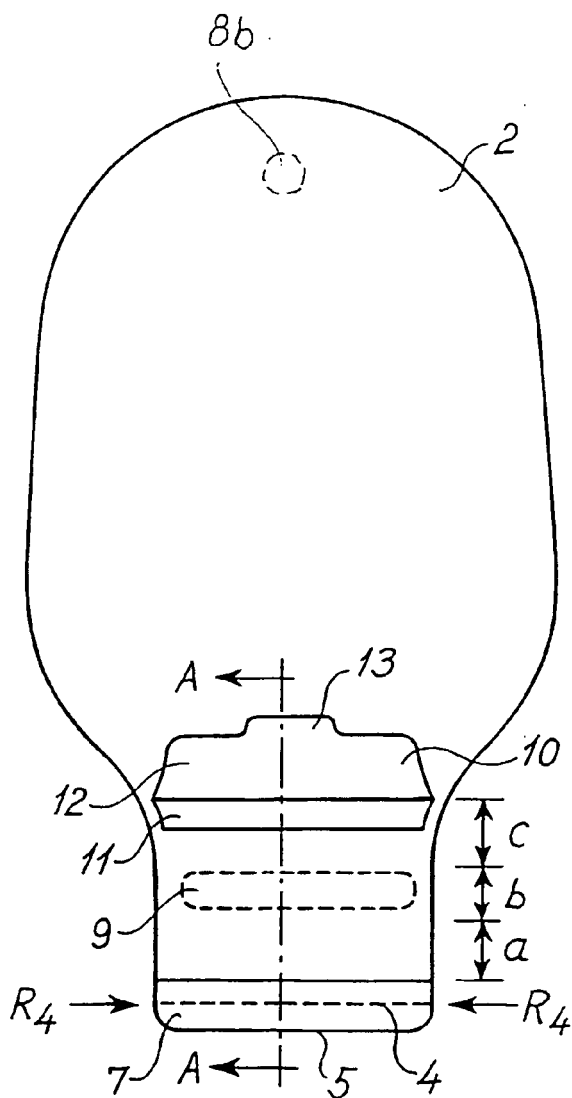
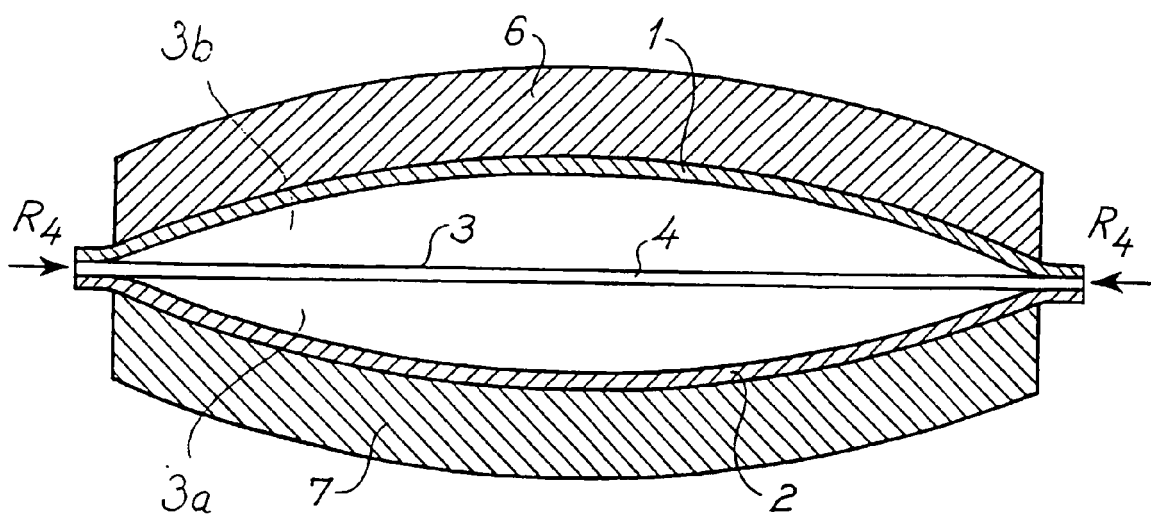
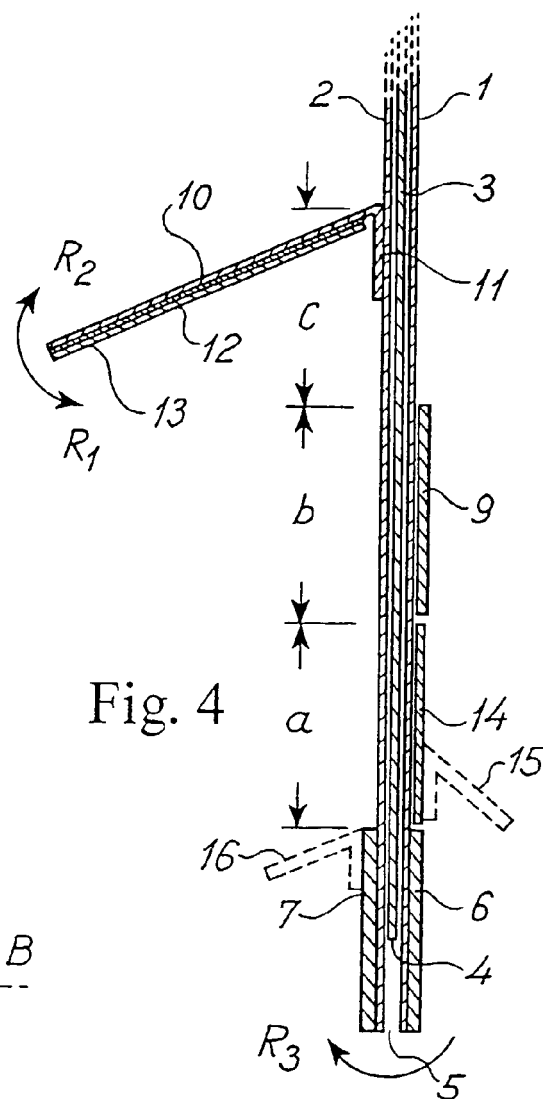
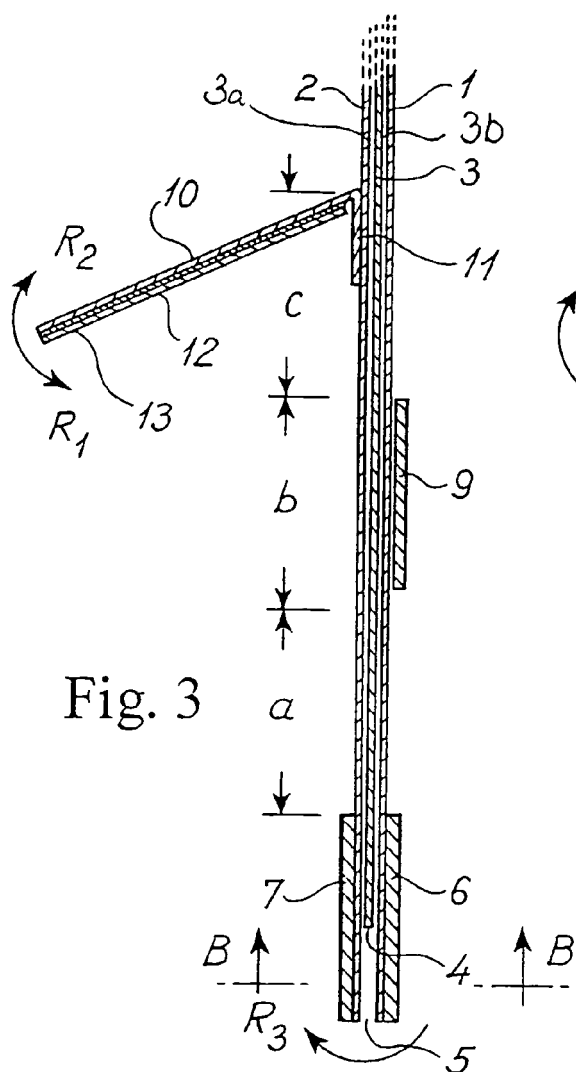
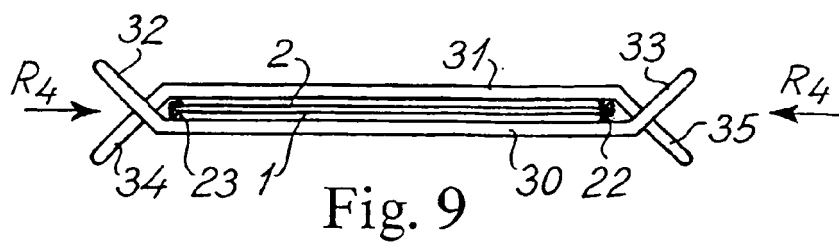
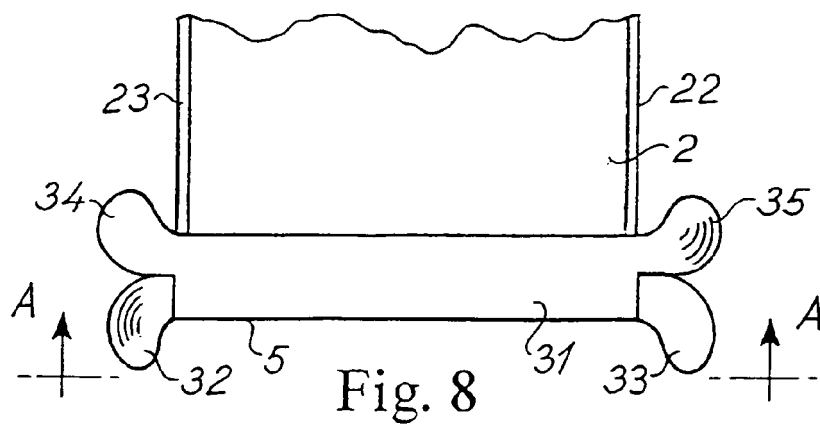
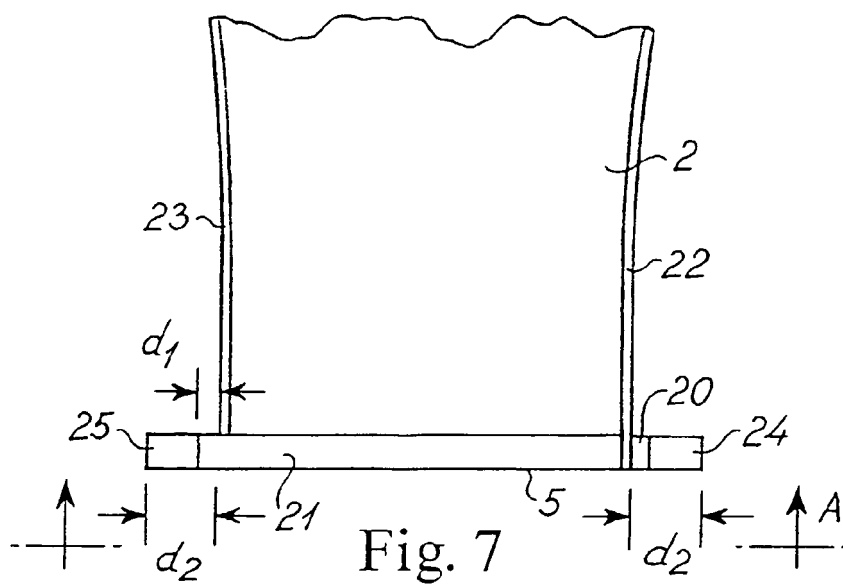
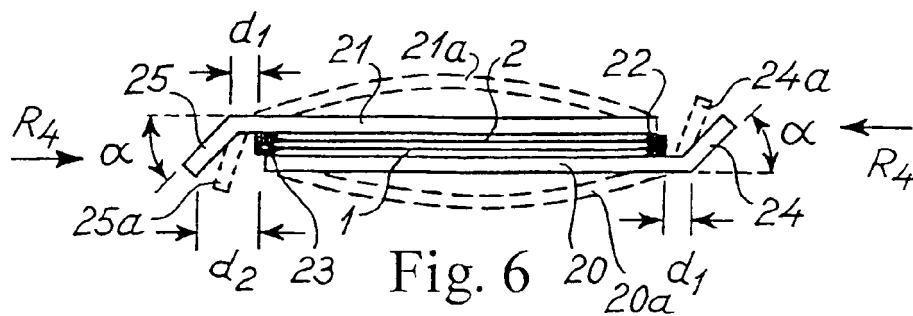


Fig. 1

Fig. 2







REFERENCES CITED IN THE DESCRIPTION

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