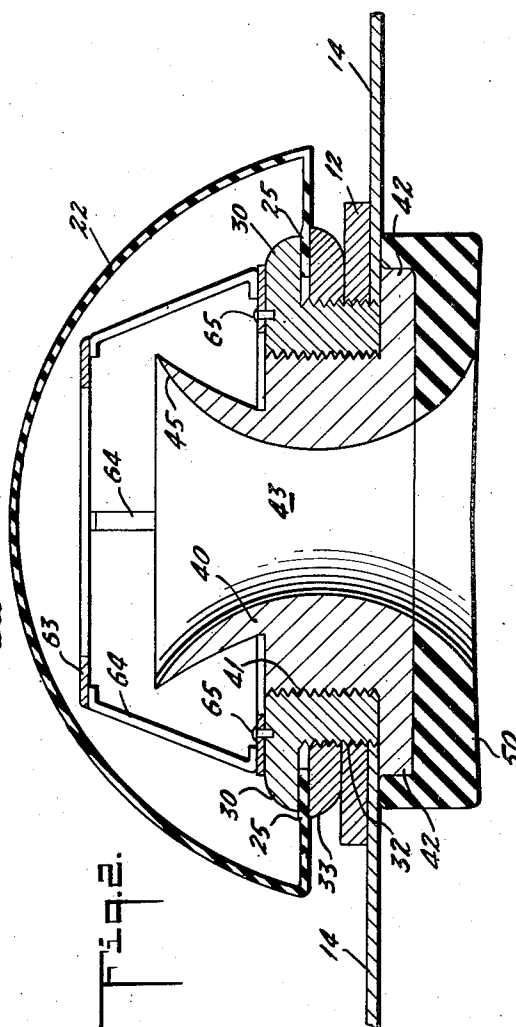


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COLOSTOMY DRAIN BAG

Filed April 24, 1946

2 Sheets-Sheet 1



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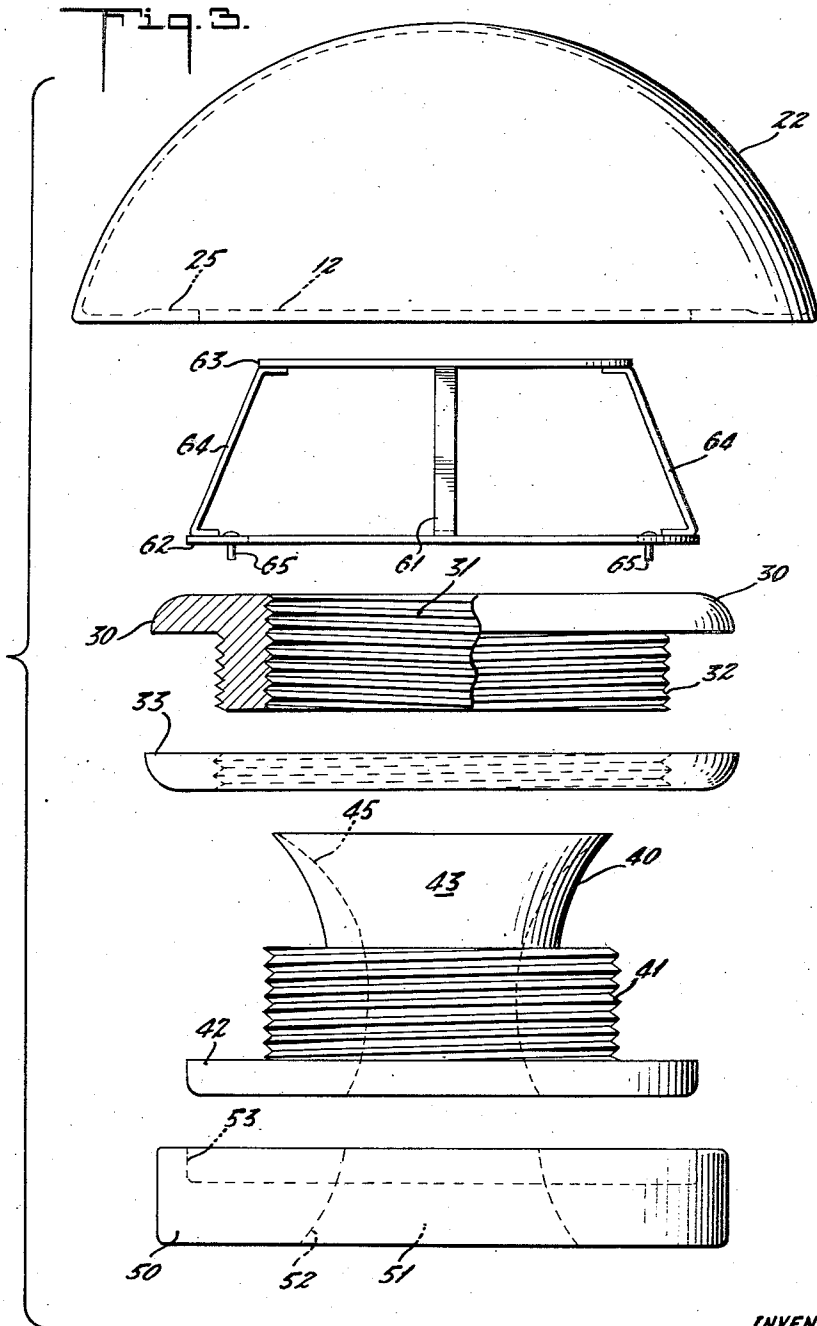
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Fig. 3.



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COLOSTOMY DRAIN BAG

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9 Claims. (Cl. 128—283)

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My invention relates to drain bags used by persons who have undergone a colostomy operation, more particularly to a bag which may be worn at night and has for its object to produce a bag that will hold and retain the faecal excrement or sediment and keep it from contacting with the body after its discharge into the bag.

At present the drain bags now on the market have one serious defect, in that no provision is made to hold the excrement from contacting with the body of the wearer, which causes not only irritation of the skin but in many cases flesh erosion. This defect has been the cause of great concern with the medical profession and up to the present nothing has been produced to overcome this condition.

A further objection to the present drain bag is that it must hang in a vertical position or the faecal excrement will leak out. With my drain bag the wearer can lay in any position and change reclining positions without fear of the bag leaking and without the faecal excrement backing up to contact with the wearer's body, which causes inflammation sought to be avoided.

The foregoing and other features of my invention will now be described in connection with the accompanying drawing forming part of this specification in which I have illustrated my drain bag in its preferred form after which I shall point out in the claims those features which I believe to be new and of my own invention.

Figure 1 is a front view of my belt which supports the colostomy bag.

Figure 2 is a cross-section through my bag along the line 2—2, Figure 1.

Figure 3 is an exploded view of assembled parts, as shown in Figure 2.

My improved colostomy bag is supported in proper place on the wearer by means of a belt 11 having a reinforced opening 12 adapted to ride between the washer 33 and the flange 42 as will be explained more in detail later on.

I prefer to make my belt 11 in two parts 13 and 14 so that it may be reversed to conform to either right or left operation. The part 13 carries the bag and is reinforced by ribs 15 which may be of bone or metal or even heavy binding. On one end I provide three buckles 16 and on the other end three heavy tapes or straps 26. These are adapted for buckling into the buckles 17 on part 14. On the opposite end of 14 three heavy tapes or straps 18 are supplied adapted to engage the buckles 16 on part 13. Crotch tapes 19 are provided for holding the belt from riding up on the wearer. Buttons 20 are provided for the

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crotch strap. Centrally located in part 13, I provide an opening reinforced by a ring 12 made of metal or plastic adapted to support my drain assembly as shown in section in Figure 2.

The drain assembly consists of a flange collar 30, having screw threaded interior 31 and screw threaded exterior 32. The flange portion 30 is adapted to ride on the reinforcing ring 25 of the bag 22. When the assembly is in place and held in its adjusted position by the screw threaded washer 33 the bag is sealed against leakage of the faecal discharge within the bag.

The drain 40 is provided with a screw threaded barrel portion 41 and an enlarged flange 42 and a central opening 43 funneling outwardly as at 45 on the end opposite the flange 42. The threaded portion 41 is adapted to screw into the internal threaded portion 31 of the collar 30. The reinforced central opening 12 of the belt section 14 having been put in place over the screw threaded portion 32 of the collar 30, the belt is held tightly in place when the flange 42 contacts the reinforced portion.

A soft bushing pad 50 having a central opening 51 which is funneled as shown, the larger diameter 52 being large enough to neatly span the opening left by the colostomy operation, is provided so that intimate contact with the body of the wearer is maintained. A recess 53 is provided adapted to tightly fit the flange 42 of the drain 40.

When the belt 11 is strapped about the wearer this soft pad 50 compresses around the body opening making a tight and effective contact with the flesh of the wearer and supports the drain 40 in a position extending outwardly from the body. The funnel-shaped portion 45 extends well into the bag 22 as clearly shown in Figure 2. This position will prevent any faecal excrement that has been extruded into the bag from returning through the drain. It will also be noticed that the shape makes it possible to change the position of the bag without any fear of the contents being spilled or returning to contact with the body of the wearer of the belt and bag.

To prevent collapse of the bag 22 I provide a cage 61 consisting of a lower ring 62, an upper ring 63 and spacer members 64. Pins 65 are provided adapted to engage holes provided to receive them in flange 30. I have illustrated a substantially semi-spherical bag, but one of ovoidal shape may be used in which event the ends of the bag may be supported by attaching to the belt by any convenient means, not shown. I plan to make my bag out of rubber but Vinylite plastic may be used or any other suitable rubber sub-

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stitute that is long lasting, washable, resistant to acid, oils and mildew.

I wish it distinctly understood that my drain bag herein illustrated and described is in the form in which I desire to construct it and that changes or variations may be made as may be desirable or convenient without departing from the salient features of my invention and I therefore intend the following claims to cover such modifications as naturally fall within the lines of invention.

I claim:

1. A device of the class described, comprising a drain member having an opening extending therethrough, said opening flaring at each end and terminating in a bell-shaped mouth on one end, mounted on and extending through a belt adapted to be worn about the body and holding the drain member in intimate contact therewith, a bag mounted on the drain member substantially midway the ends thereof and carried by the belt, the bell shaped end of the drain member extending well into the bag.

2. A device of the class described comprising a drain member having an opening extending therethrough, said opening flaring at each end and terminating in a bell shaped mouth on one end, mounted on and extending through a belt adapted to be worn about the body holding one end of the drain member in intimate contact therewith, a bag, provided with an opening for mounting on the drain member substantially mid-way the ends thereof and carried by the belt, the end of the drain member extending into the bag being the bell shaped one opposite the end held in contact with the body.

3. A device of the class described comprising a drain member having an opening extending therethrough, said opening flaring outwardly and terminating in a bell shaped mouth on one end, a soft rubber bushing pad adapted to engage the other end of the drain member, a bag provided with a central opening adapted to receive and support the drain member, the bell shaped end of the drain member opposite the end provided with the soft rubber bushing pad extending into the bag member through the side of the bag provided with the opening, means comprising clamping flange and screw collar carried by the drain member for clamping the bag thereto and sealing the bag against leakage, means carried by the drain member for clamping a belt thereto, a belt member provided with means for receiving the drain member and the bag member, whereby the drain member is held securely and tightly against the body of the wearer and so formed that the excretions from the opening will not contact with the body of the wearer.

4. A support for a colostomy bag comprising in combination a flanged member provided with a central hole carrying an internal thread and a thread on the outer diameter, a washer adapted to screw on to the outer threaded portion to hold a bag member in place in between a tubular member flaring at each end and provided with a screw threaded barrel adapted to fit into the internally threaded portion of the aforementioned flanged member, the end of the screw threaded portion carrying a flanged portion, a soft rubber pad provided with a recessed portion adapted to fit on and snugly engage the flanged portion of the tubular member, said soft rubber portion provided with a tapered central hole coaxial with the hole in the tubular member.

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5. A colostomy bag comprising a belt member adapted to support a drain portion tightly against the body of the wearer and in an outwardly extending position, a bag carried by the belt, one side of which being shaped to conform to the body of the wearer and having an opening therein adapted to be held and sealed by the drain portion, a drain portion having a central opening both ends flaring, one end terminating in a bell shaped mouth, a soft pad adapted to engage the other end of the drain portion that is pressed against the body of the wearer, the bell shaped end opposite the pad extending well into the bag.

6. A device of the class described comprising a drain member having an opening extending therethrough, said opening flaring outwardly, a soft rubber bushing pad adapted to engage one end of the drain member, a bag one side of which being shaped to closely hug the body of the wearer, and provided with a central opening adapted to receive and support the drain member, the end of the drain member opposite the end provided with a soft rubber bushing pad having a bell shaped mouth extending into the bag member through the side of the bag provided with the opening, means carried by the drain member for clamping the bag thereto and sealing the bag against leakage, means carried by the drain member for clamping a belt thereto, a belt member provided with means for receiving the drain member and the bag member, whereby the drain member is held securely and tightly against the body of the wearer and so formed that the excretions from the opening will not contact with the body of the wearer, means carried by the drain member to keep the bag extended.

7. A support for a colostomy bag comprising in combination a flanged member provided with a central hole carrying an internal thread and a thread on the outer diameter, a washer adapted to screw on to the outer threaded portion to hold a bag member in place in between the flange and the washer, a tubular member flaring at each end and provided with a screw threaded barrel adapted to fit into the internally threaded portion of the afore-mentioned flared member, the end of the screw threaded portion carrying a flanged portion, a soft rubber pad provided with a recessed portion adapted to fit on and snugly engage the flanged portion of the tubular member, said soft rubber portion provided with a tapered central hole coaxial with the hole in the tubular member, means carried by the flanged member to support the bag against collapse.

8. A colostomy bag comprising a belt member adapted to support a drain portion tightly against the body of the wearer and in an outwardly extended position, a bag carried by the belt, one side of which being shaped to conform to the body of the wearer and having an opening therein adapted to be held and sealed by the drain portion, a drain portion having a central opening both ends flaring, a soft pad adapted to engage one end of the drain portion that is pressed against the body of the wearer, the end opposite the pad terminating in a bell shaped mouth extending well into the bag, a cage carried by the drain portion to hold the bag in extended position.

9. A colostomy bag comprising in combination, a bag, a tubular drain, a belt support for a tubular drain, means to hold the drain substantially perpendicular to the belt, said drain extending through an opening in the belt, a soft cushion

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pad on the end of the drain on one side of the belt, the opposite end of the drain provided with a flaring bell shaped mouth extending well into the bag, means carried by the drain for sealing the bag and to prevent the bag collapsing.

VINCENT JOSEPH PORCELL.

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