Jan. 17, 1928.

1,656,328

T. J. LE CRAS

COLOSTOMY APPLIANCE

Filed Nov. 5, 1926

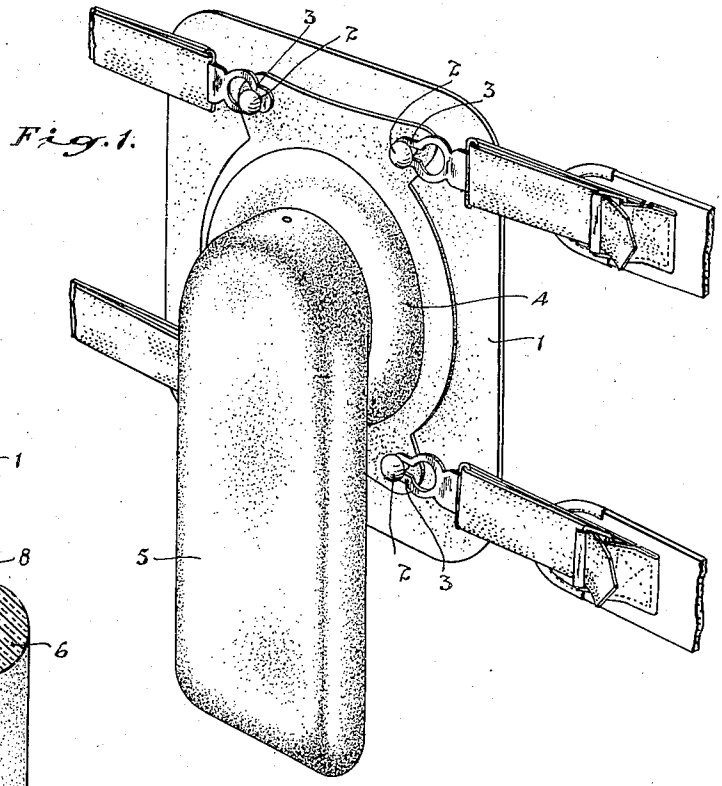


Fig. 1.

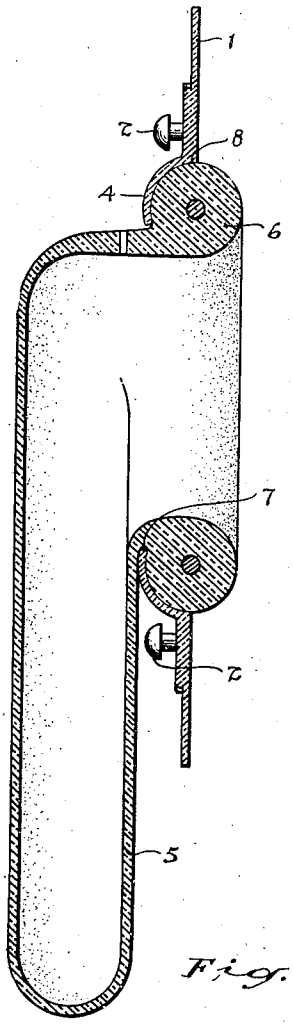


Fig. 2.

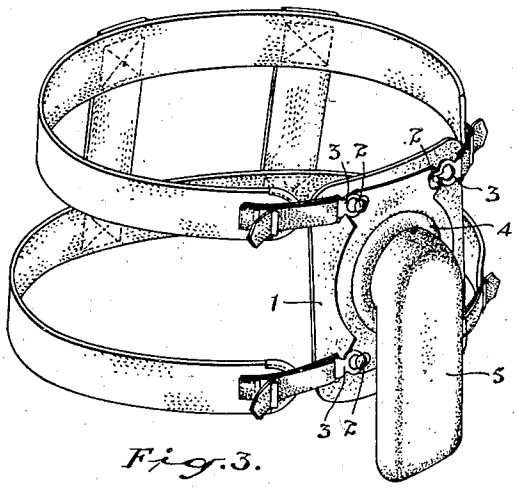


Fig. 3.

Inventor.
Thomas J. Le Cras.
by H. S. Dennison
Atty.

Patented Jan. 17, 1928. 1,656,328

UNITED STATES PATENT OFFICE.

THOMAS J. LE CRAS, OF TORONTO, ONTARIO, CANADA.

COLOSTOMY APPLIANCE.

Application filed November 5, 1926. Serial No. 146,439.

The principal objects of the invention are, to minimize the inconveniences, discomforts and handicaps to patients who have suffered a colostomy operation and to provide an appliance which will be thoroughly sanitary and which will enable the ready removal and replacement of the pouch.

The principal features of the invention consist in the novel construction of the pouch and of the retainer for holding the pouch, whereby a collar or bead encircling the opening to the pouch is held in a sealing contact with the body of the wearer.

In the drawings, Figure 1 is a perspective view of the pouch and retainer showing the ends of the belt straps attached thereto.

Figure 2 is a longitudinal, mid-sectional view on an enlarged scale.

Figure 3 is a small perspective view of the entire appliance.

Following a colostomy operation it is necessary to provide a closure for the incision which will fit snugly to the body of the wearer so that the escape of fluids or gases will be prevented without imposing uncomfortable restriction.

The device comprises a retainer pad 1, formed of rubber adapted to fit snugly against the body. The pad is provided with studs 2 embedded in the rubber material to which the loop ends 3 of the belt straps are detachably secured. The central portion of the pad is formed with an obliquely disposed elliptical opening around which is arranged an annular inwardly curving flange 4, forming a socket depression encircling the central opening.

The pouch 5 is in the form of a long flat receptacle also formed of rubber and provided with a rounded upper end which terminates in a heavy bead structure 6 which is of an elliptical form obliquely disposed in relation to the pouch. The elliptical bead 6 is shaped to fit snugly into the socket flange 4 of the pad 1 with the pouch protruding through the opening and the outer edge of the flange socket fits tightly around the neck 7 of the pouch. The cross sectional container of the outer wall of the bead 6 of the pouch corresponds with the cross-sectional contour of the inner wall of the socket flange 4 of the retainer pad so that the bead fits very snugly in place and the inner edge 8 of the pad surrounding the opening therein binds upon the bead and forms a liquid tight joint, the socket joint thus formed also preventing displacement of the pouch in the pad.

The bead 6 is very thick and part of its thickness is bedded in the cavity formed by the flange 4. The other part protrudes beyond the inner face of the pad which fits against the body, consequently the protruding thickness of the bead beds itself in the body around the incision.

The bedding of the bead in the flesh forms a thoroughly effective seal around the incision against the escape of any liquids or feces and all sound from the escape of gases is eliminated. A small relief orifice 9 is provided in the thick upper shoulder of the pouch. The pouch is of a flat construction having the upper wall 10 of greater thickness than the remainder of the walls to prevent possibility of collapse and ensuring very positive and free movement of the feces.

From this description it will be understood that the patient will suffer the minimum of discomfort in the use of this appliance and that the onerous conditions entailed by the nature of the surgical operation will be greatly mitigated.

The pad and the belt supporting same are sufficiently flexible to allow the easy withdrawal of the pouch therefrom and the ready insertion of a fresh pouch without either removing or displacing the retainer pad, it being merely necessary to disconnect one of the belt fasteners from the pad 1 which will allow the corner to be turned back and when the pouch may be withdrawn.

What I claim as my invention is:

1. A colostomy appliance, comprising a retainer having a socket depression therein, a central opening in said socket depression, and a pouch of a size adapted to be readily inserted through the opening in said retainer and having a beaded edge engaging the wall of the socket depression around the opening and extending inwardly and forming a seal against the body.

2. A colostomy appliance, comprising a flat flexible rubber retaining pad having a central orifice formed with a socket depression around its periphery, fastening devices secured in said pad, belts adapted to encircle the body detachably secured to said fastening devices, and a pouch of a size adapted to be readily inserted through the orifice in said pad and having a beaded edge adapted to fit into said socket depression.

3. A colostomy appliance, comprising a

belt, a retainer pad secured to said belt having an orifice therein, and a socket surrounding said orifice, and a pouch of a size adapted to be readily inserted and withdrawn through said orifice from the inner side of the pad and having a beaded edge adapted to fit into said socket and to seal against the body.

4. A colostomy appliance, comprising a belt, a retainer pad secured to said belt having an orifice therein, said orifice having a surrounding flange curved outwardly forming a surrounding socket, and a pouch of a size adapted to be readily inserted and withdrawn through the orifice from the inner side of the pad and having a bead adapted to fit into the socket and to project beyond the inner face of the pad, the edge of the pad binding around the bead of the pouch in a liquid tight joint.

5. A colostomy appliance, comprising a belt, a retainer pad secured to said belt having an orifice therein and a flange curved inwardly to form a socket surrounding the orifice, and a pouch of a size adapted to be readily inserted and withdrawn through the orifice from the inner side of the pad having a rubber pocket formed with a heavy integral annular bead of circular cross section adapted to fit snugly into the socket formed by the inwardly curved flange to form a seal therewith, said bead projecting beyond the inward face of the pad to be embedded in the flesh of the wearer.

6. A colostomy appliance, comprising a belt, a retainer pad secured to said belt having a socket depression on the inner side thereof leading to a central orifice and a rubber pouch of a size adapted to be readily inserted and withdrawn through said orifice from the inner side of the pad and having a bead conforming to said socket depression adapted to fit thereagainst in sealing contact and to seal against the body, said pouch being of a flat tubular form having the shoulder at the top connecting with the sealing flange moulded much thicker than the side walls to reinforce the pad to prevent the collapse of the tube.

THOMAS J. LE CRAS.