April 15, 1952 H. E. SMITH 2,593,211

COLOSTOMY CONTAINER GUARD

Filed May 28, 1949 4 Sheets-Sheet 1

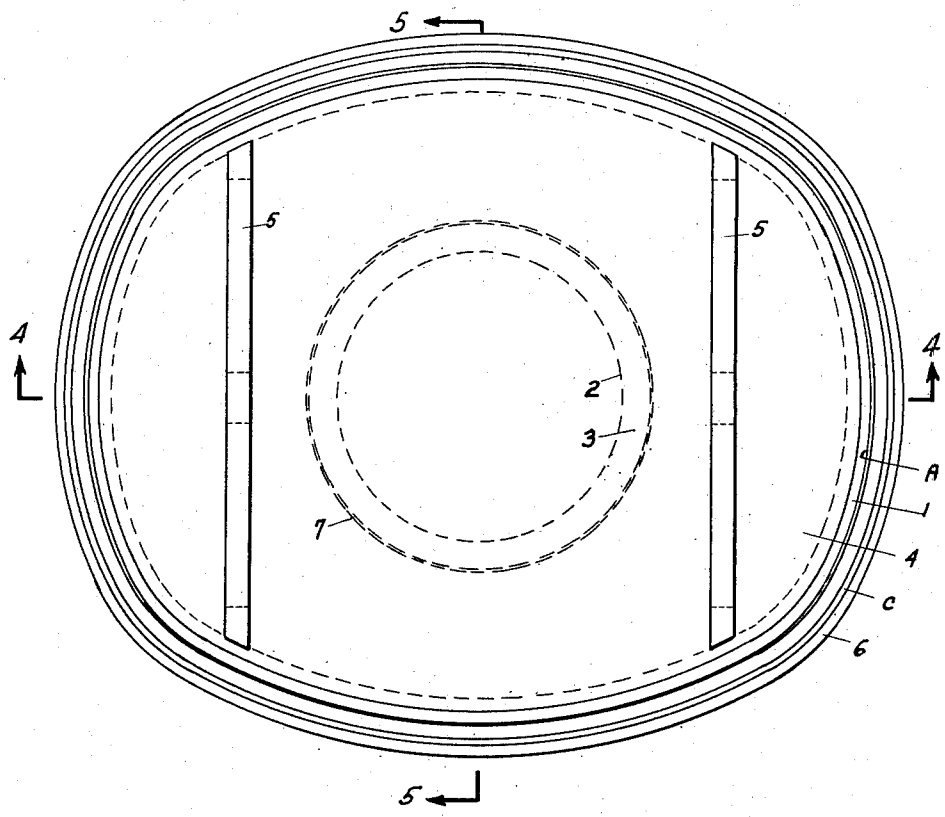


Fig. 1

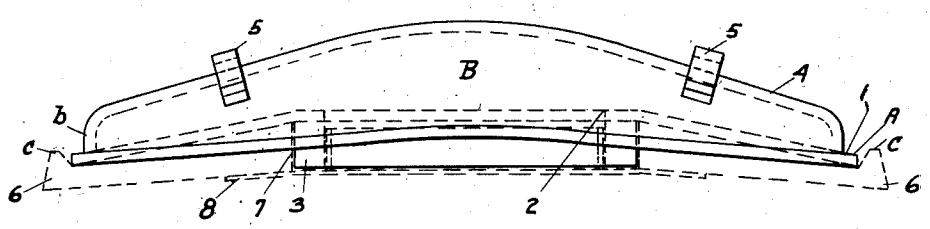


Fig 2

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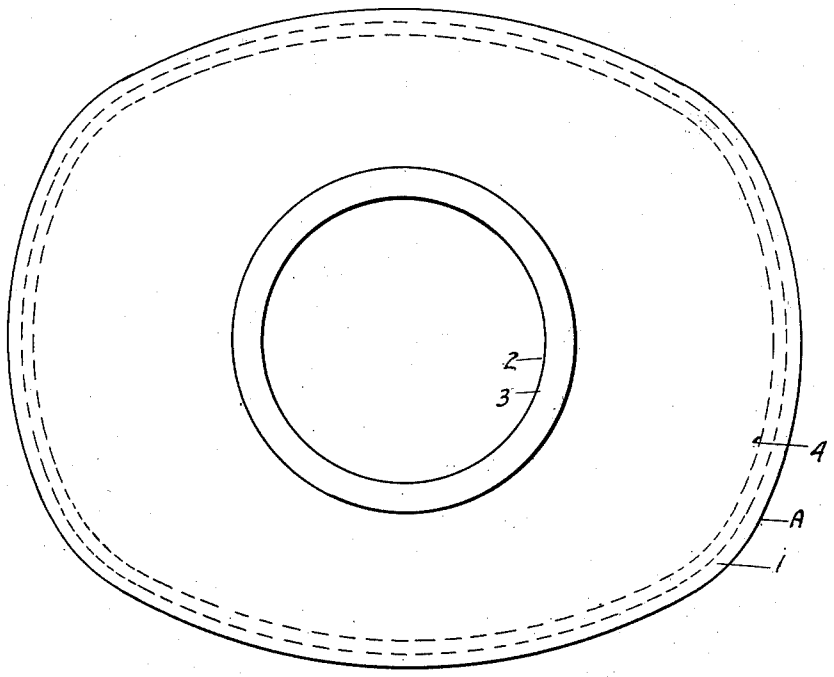


Fig. 3

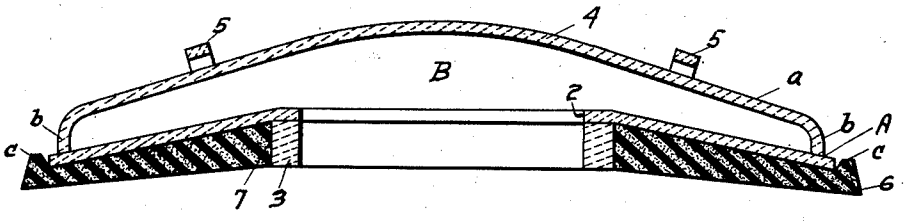


Fig. 4

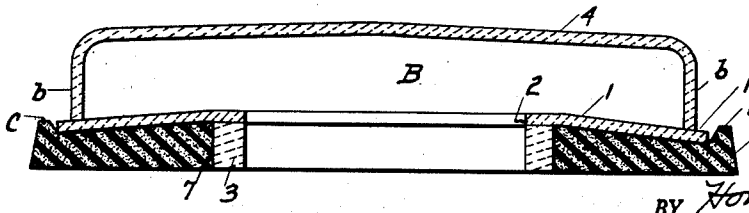


Fig. 5

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COLOSTOMY CONTAINER GUARD

Filed May 28, 1949 4 Sheets-Sheet 3

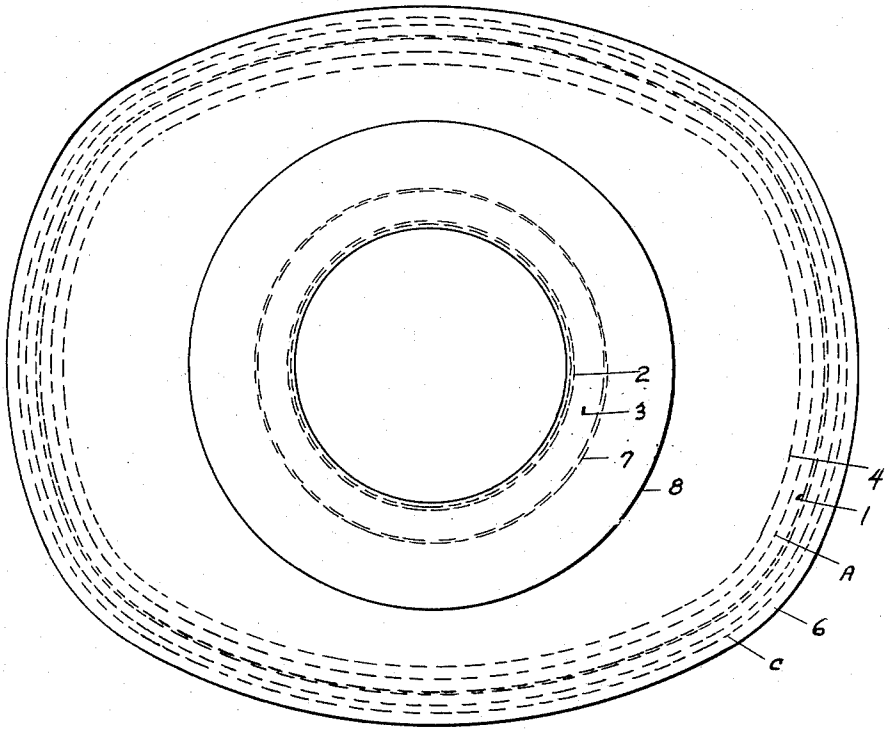


Fig. 6

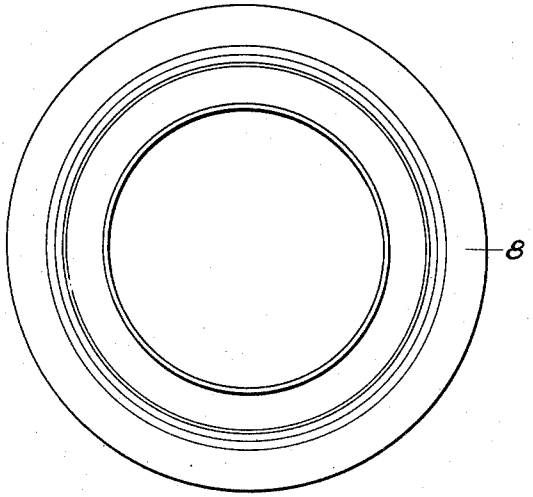


Fig. 7

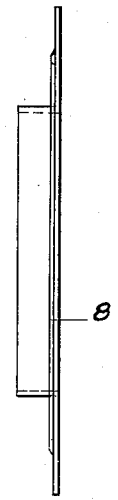


Fig. 8

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COLOSTOMY CONTAINER GUARD

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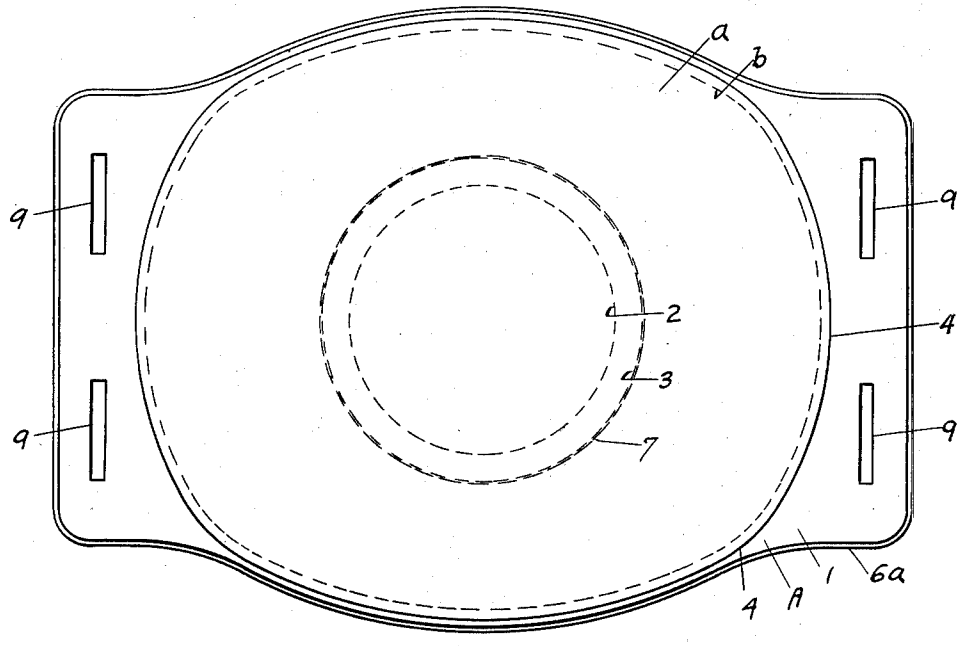


Fig. 9

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2,593,211

UNITED STATES PATENT OFFICE

2,593,211

COLOSTOMY CONTAINER GUARD

Howard E. Smith, Monroe, Mich.

Application May 28, 1949, Serial No. 95,968

2 Claims. (Cl. 128—283)

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My invention relates to a special medical appliance used in care of patients after a permanent colostomy operation and is a modification of my patent application Serial No. 95,967, filed May 28, 1949 relating to a plain Colostomy Guard unit.

The object of my invention is to produce a combination colostomy guard unit and drainage container that will fit comfortably over the body surface and form a sealed, liquid tight contact therewith, especially applicable for uncontrolled discharge.

Another object is to provide a colostomy container guard of a design for wear beneath clothing without disclosure.

A further object is to produce a combination guard and container that is transparent for inspection or examination, easily removed and cleaned, and that will replace the use of absorbent pads or bandages now in common use.

These several objects are attained in the preferred form by the construction and arrangement of parts more fully hereinafter set forth.

Similar parts on all drawings are marked by similar numerals or letters.

Fig. 1 is a top view of the assembled container guard showing the general arrangement of the container compartment and one means for attaching same to the patient's body.

Fig. 2 is a side elevation of the container guard casing, showing the relative position of the various parts and sections.

Fig. 3 is a bottom view of the guard container casing, with the rubber surface pad removed, showing the colostomy ring opening.

Fig. 4 is a longitudinal sectional view taken on the line 4—4 of the Fig. 1, showing the container compartment, and the surface pad as mounted over the guard inner wall.

Fig. 5 is a cross-sectional view taken on the line 5—5 of the Fig. 1, showing the guard central sectional design.

Fig. 6 is a bottom view of the Fig. 1 showing the sponge rubber surface pad and seal ring as mounted over the central guard ring.

Fig. 7 is a top view of the thin rubber seal ring.

Fig. 8 is a side view of the rubber seal ring.

Fig. 9 is a modified top view showing alternate belt attaching means.

I will now describe more fully the detailed construction of my device, referring to the drawings and the marks thereon.

In general surgery, a permanent colostomy is performed at a predetermined position on the human abdomen, and with the severed intestine open end projected out through the abdominal incision, remaining in that position permanently. My colostomy container guard is designed to cover and inclose the abdominal incision and

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projected intestine open end, forming a sealed inclosure therefor, and to receive and retain the discharge therefrom.

The container guard casing A is formed of a thin, curved base section 1, made of suitable sheet material, preferably transparent plastic materials having non-toxic properties, and is formed substantially to the normal body abdominal curvature. The base 1 is provided with a central circular opening 2 therethrough, and carries a cylindrical colostomy contact ring 3, of like material, fixedly mounted on the inner surface thereof, concentric with the central wall opening 2, and is securely sealed, or fused therewith, by suitable means adaptable to the special material used, thus sealing, or fusing the contacting materials together. A container casing cap 4, also of like transparent plastic material, is formed with a central curved surface *a* designed with an outer flanged edge *b* encircling same, formed to contact and fit the outer surface of the base section 1, symmetrically positioned thereon, and is likewise securely attached and sealed thereto as in the process previously described, forming a sealed, liquid tight guard container chamber B therein. The container cap 4 is preferably provided with suitable double belt strap bars 5 positioned at opposite casing ends, cross-wise thereof, and provide means for adjustably retaining said guard unit securely over the abdominal incision or with end belt slots 9 as shown in Fig. 9. On the inner side of the assembled guard base 1, is mounted a sponge rubber surface pad 6 preferably formed with an outer rim rib *c*, designed to encircle and fit the base section edges or a flat pad 6*a*, if desired, as in Fig. 9, and is provided with a central circular recess 7 positioned concentric with the colostomy ring 3, and is designed to pass thereover. The surface pad 6 being preferably formed with an inner beveled and curved surface to conform with the curvature of the base section 1, and with a straight, flat outer surface designed flush with the colostomy ring outer end, forming a smooth, pliable surface for body contact, and liquid tight therewith, to prevent any abdominal leakage or surface seepage. To further seal the circular recess 7, a special flanged seal ring 8, made of this rubber, may be mounted over the ring edges, positioned to cover and seal the joint opening.

Any suitable type of belt may be used through the belt bar openings, or end recesses adaptable for the proper body adjustment, and when the container guard is properly mounted over the abdominal opening, it forms a perfect body seal therewith, and will receive and retain any discharge therefrom. The transparent material provides easy inspection and examination without the guard removal, and also provides means

for sanitary cleaning and sterilization of the unit.

My container guard may also be made of other suitable materials, and either assembled, cast, or moulded as desired. The operation and result is the same in either case.

Having fully described my colostomy container guard, what I claim as my invention and desire to secure by Letters Patent is:

1. A container guard adapted for use by a colostomy patient, comprising a curved base section of suitable plastic sheet material designed slightly curved and formed with a central opening therethrough, a short cylindrical guard ring fixedly mounted over said base central opening and projected therefrom, a recessed container cap of similar sheet material curved over said base section and formed with rim flanged edges therearound designed to contact and fit the base section outer surface, fused and sealed therewith, suitable belt retaining bars fixedly mounted across the container cap outer surface, a sponge rubber surface pad designed with a central opening, mounted over the base section concave surface, said pad opening positioned over the base guard ring, and a flanged seal ring mounted over said guard ring edges.

2. A transparent colostomy container guard for use by permanent colostomy patients, comprising a curved base section of sheet material, designed slightly curved and formed with a central opening therethrough, a short thick cylindrical guard ring of like material fixedly mounted on the base inner surface concentric with the central circular opening, and fused therewith, a transparent container cap of like material curved over the base section and formed with flanged rim edges thereabout designed to contact and fit the base outer surface, and rigidly fused and sealed therewith, suitable belt strap retainer means, of like material, positioned at opposite ends thereof, a sponge rubber surface pad of a thickness equal to the guard ring section, mounted over the base section concave surface, said pad being provided with a central opening therethrough to surround said guard ring, and a thin rubber seal ring mounted over the guard ring edges for sealing the adjoining pad central opening edges.

HOWARD E. SMITH.

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