Oct. 16, 1928. 1,687,717

K. EPSTEIN

SURGICAL APPLIANCE

Filed May 20, 1925

Fig. 1.

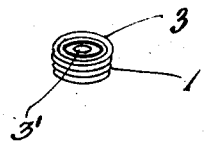
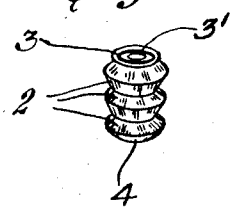


Fig. 2.



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INVENTOR

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UNITED STATES PATENT OFFICE.

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SURGICAL APPLIANCE.

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This invention relates to a surgical appliance and more particularly to a sanitary bag for receiving infectious secretions from the urethra, as well as for receiving diseased and involuntary outflowing urea.

With the sanitary bags now generally in use for the purposes above set forth, the bag when attached to the penis for receiving the secretion flowing from the urethra, soon becomes filled with the liquid, and the contents of the bag will be in contact with the head of the penis. This results in the contamination of the organ, as well as causing considerable discomfort to the patient. Furthermore, inflammation and purulence result from such contact of the liquid with the penis.

One of the important objects of the present invention is to provide a sanitary bag which will overcome the above disadvantages, the bag being of such construction as to permit the gradual expansion of the same under the weight of the secretion flowing from the urethra into the bag, so that the surface of the secretion will at all times be in spaced relation with respect to the head of the penis.

Another important object of the invention is to provide a sanitary bag of the above mentioned character which may be readily and easily attached, the same enabling a patient to wear the surgical appliance with comfort, the bag further preventing the clothes of the wearer being soiled by the outflowing secretion.

A further object is to provide the sanitary bag of the above mentioned character which is simple in construction, inexpensive, strong and durable, and further well adapted for the purposes for which it is designated.

Other objects and advantages of this invention will become apparent during the course of the following description:

In the accompanying drawing forming a part of this specification and in which like numerals designate like parts throughout the same;

Fig. 1. Is a view of the sanitary bag embodying my invention showing the same in its folded or collapsed position, and

Fig. 2. Is a view showing the bag, in a slightly expanded position.

In the drawing, wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally the sanitary bag, the same being preferably formed of rubber, although it is to be understood that any other suitable expansible material may be substituted therefor.

The bag includes a series of bellows 2. The bellows are formed by providing a plurality of spaced annular creases or folds so that the bag is normally maintained in a folded or collapsed position. The bellows 2 provide a means, whereby the bag is adapted for expansion in the manner hereinafter to be more fully described.

The bag is provided at its upper end with the annular rim portion 3. An annular band or ring 3′ of a width less than the width of the aforementioned rim portion is carried by the latter. This band or ring has its upper surface provided with an adhesive whereby the open upper end of the bag may be secured on the head of the penis. By constructing the band or ring 3′ in such a manner, wherein the outer diameter thereof is less than the outer diameter of the rim portion, the bag may be easily and readily grasped at its open upper end to facilitate the placing of the same over the head of the penis without touching the viscous upper surface of the securing band or ring 3′.

The bottom of the bag is substantially dish-shaped as illustrated at 4 in the drawing. A cavity is formed by the construction of the bottom of the bag in the manner as above described and in this cavity is placed a small quantity of poisonous substance which is adapted to be readily dissolved when the same comes in contact with the liquid injected into the bag and cavity provided in the bottom thereof. The purpose of placing the poisonous substance in the cavity is to exterminate the bacteria in the secretion whereby the latter will not be infectious when the bag is removed from the penis.

In use, the sanitary bag is secured or attached over the head of the penis in the manner as heretofore more fully described. Normally, the bag is in its folded or collapsed position, and the small size of the bag makes it possible for the latter to be placed over the orifice of the urethra, in close proximity thereto against the skin of the gland. This is an essential feature of the present invention, owing to the continuous contact of the skin of the gland within the zone confined with the urine and secretions, which results in the hardening of said portion of the gland. Thus the skin is not stimulated by the viscous sub-

stance, even though the remaining portion of the skin of the gland is easily irritated and very stimulative.

As the secretion flows from the urethra, the same will be injected into the expansible sanitary bag and will come in contact with the poisonous substance contained within the cavity provided in the bottom of the bag whereby the bacteria will be killed.

The bag will automatically and gradually expand under the weight of the secretion injected into the same, the bellows 2 permitting the expansion. This will enable the surface of the liquid to at all times be maintained in spaced relation with respect to the head of the penis. When the bag has expanded to its fullest extent, the same will be capable of holding a relatively large amount of such secretions so that it will not be necessary to remove the bag very often.

The bag will at all times be positive and efficient in carrying out the purposes for which it is designated. The bag will not only prevent the clothes of the patient becoming soiled by any of the secretions, but may be worn without causing the least bit of discomfort to the wearer.

The bag, may be readily and easily attached and removed without the loss of any considerable length of time or labor.

In the event that the skin of the organ is diseased or destroyed, the shape of the annular rim portion 3 will change in such a manner as to fit over the whole of the organ together with the medicaments placed therein.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape, and arrangement of parts may be resorted to without departing from the spirit of the invention, and the scope of the appended claim.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

A sanitary bag of the class described comprising a cylindrical bag of substantially uniform diameter, a part-globular piece closing one end of said bag, a closure at the other end having a central opening, the wall of said bag being corrugated at right angles to its axis so as to be foldable, the depth of the corrugations being substantially the same throughout and the inner edges of said corrugations in the folded condition of said bag forming circles of larger diameter than said central opening, said end closure having the opening being provided around the opening with an adhesive.

Signed at Berlin, Germany, this 4th day of March A. D. 1925.

KEILI EPSTEIN.