

Jan. 10, 1950

G. E. KURTZ

2,494,477

URINAL COLLECTING GARMENT

Filed Oct. 23, 1948

Fig. 1.

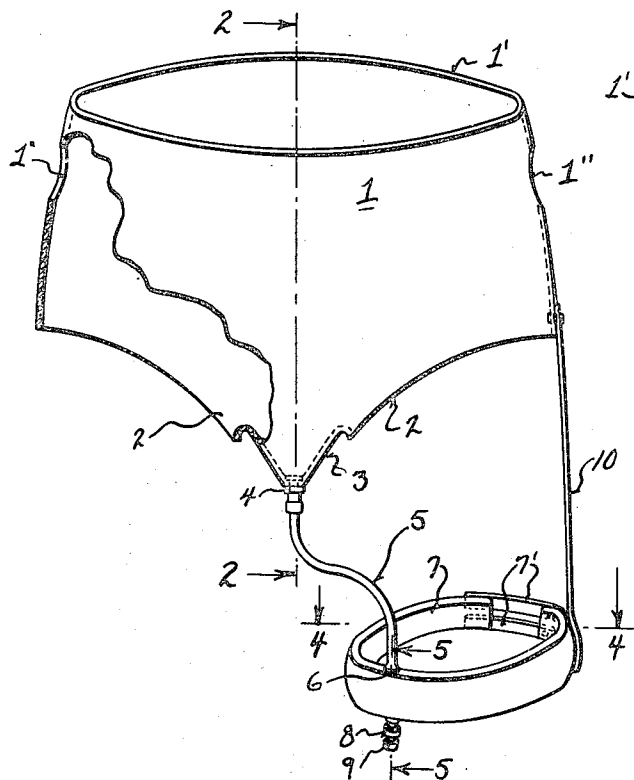


Fig. 2.

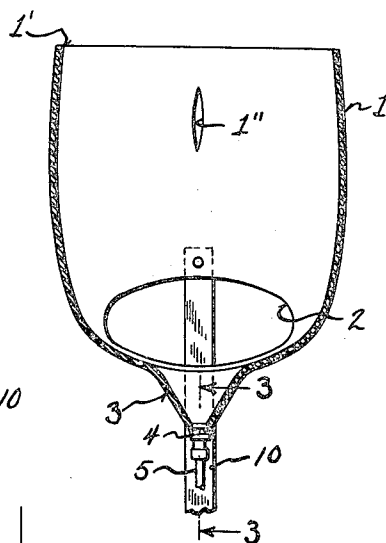


Fig. 3.

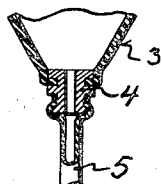


Fig. 4.

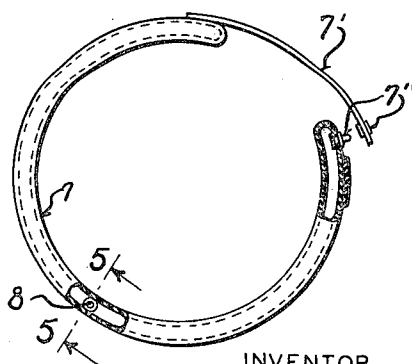
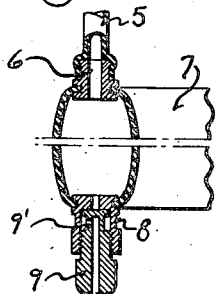


Fig. 5.



INVENTOR
GEORGE E. KURTZ

BY

[Signature]
ATTORNEYS

UNITED STATES PATENT OFFICE

2,494,477

URINAL COLLECTING GARMENT

George E. Kurtz, Petoskey, Mich., assignor of one-half to Roy A. Fisher, Plymouth, Mich.

Application October 23, 1948, Serial No. 56,211

2 Claims. (Cl. 128—295)

1

My invention refers to sanitary urinal collecting garments and it has for its object to provide a comfortable and simple waterproof garment of the "shorts" type, to be worn by both sexes afflicted with bladder weaknesses.

The specific object of my invention is to provide a one-piece thin rubber garment of the "shorts" type, having a conical crotch pocket, terminating at its downwardly peaked end, with an annular grooved sleeve in communication therewith. The sleeve has attached thereto one end of a flexible hose and the opposite end of said hose is also coupled to an annular grooved sleeve, which sleeve is secured or vulcanized to the inside top edge of a split rubber tubular ring or garter. The tubular split ring is attached to the thigh of a user by an elastic tape or tapes, the tubular ring being also suspended by a strip secured to the hip portion of the garment and the outside portion of the ring.

A further object of my invention is to provide a manually controlled discharge valve carried by a housing, the same being in communication with the bottom edge of said ring and in alignment with the tubular sleeve coupling connection, whereby drainage from the crotch pocket is had by simply opening the valve.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts, substantially as hereinafter described, and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claims.

In the accompanying drawings is illustrated one complete example of the physical embodiment of the present invention constructed according to the best mode so far devised for the practical application of the principles thereof.

In the drawings:

Fig. 1 represents a front elevation perspective view of a garment embodying the features of my invention.

Fig. 2 is a cross sectional view through the same, the section being indicated by line 2—2 of Fig. 1.

Fig. 3 is an enlarged detail sectional elevation of a portion of the crotch pocket and coupling connection between a drainage tube or hose, the section being indicated by line 3—3 of Fig. 2.

Fig. 4 is a plan sectional view through the tubular ring associated with the garment, the section being indicated by line 4—4 of Fig. 1; and

2

Fig. 5 is a magnified cross sectional view through the tubular ring showing the drainage intake sleeve and discharge valve, the section being indicated by line 5—5 of Fig. 1.

Referring by characters to the drawings, 1 indicates the hip portion of an elastic garment having a waistband 1' and leg bands 2. The crotch portion between the leg bands is merged into a downwardly tapered urinal receiving pocket 3, having secured to its discharge end an annular grooved sleeve 4, and fitted over its lower end a drain tube or hose 5.

The hip portion of this garment, known to the trade as "shorts," is molded from one piece of thin rubber and is preferably provided with hip vent slots 1" in diameter for comfort.

It should also be understood that the garment may be made from any suitable waterproof material, such, for example, as thin plastic, in which case the waist and leg bands may be gathered to form elastic gripping surfaces.

As best indicated in Fig. 5 of the drawings, the lower end of the drain tube 5 is fitted over a sleeve 6 communicating with a tubular split ring 7, the said sleeve being secured by means of an annular groove to the upper edge portion of said tube.

Aligned with the drain tube discharge and carried by the ring, is an annular groove housing 8 secured to the bottom wall of the ring and communicating therewith. The discharge end of the housing is internally threaded for the reception of a threaded manually actuated valve 9, the same being centrally bored up to the valve head 35 and the bore of said valve is interrupted by a transversely disposed opening 9', which communicates with the valve housing, whereby when said valve is rotated to its open position, drainage from the ring will travel through the housing, valve opening 9', and central bored channel.

As illustrated in Figs. 1 and 4 of the drawings, the tubular ring 7 is fabricated from thin elastic material and the same is transversely split, whereby it can be conveniently fitted to the thigh of the garment user. After the ring is clamped in position, it is secured by an elastic strip or strips 7' having the usual snap fastening 7'', whereby the ring is closed.

As a further support for the ring, I provide a suspension strap 10, the upper end of which is secured to the hip portion of the garment, and the lower end to the outer side of the ring 7. Thus it may be quickly fitted to the user in a comfortable manner, whereby there are no unpleasant strains upon the party wearing it.

3

It is manifest that the ring may be of such dimensions that it will accommodate an adequate volume of drainage and that the same may be carried indefinitely until such time as the user may privately drain it off by simply manipulating the valve 9.

I claim:

1. In an elastic urinal pocketed garment of the "shorts" type, having a waistline hip portion and leg opening bands and a downwardly inclined tapered pocket formed in the crotch; a sleeve seated in the discharge end of the pocket, a split tubular elastic ring adapted to envelope the thigh of a user, a sleeve in communication with the upper inner edge of the ring, a flexible tube connecting the crotch sleeve and ring sleeve, a tape strip connecting the ends of the split ring, a suspension strap connecting the outer side of the ring and the hip portion of the garment, and a manually controlled drainage valve in communication with the bottom edge of said ring.

2. In an elastic urinal pocketed garment of the "shorts" type, having a waistline hip portion and

4

leg opening bands and a downwardly inclined tapered pocket formed in the crotch; a sleeve seated in the end of the pocket, a tubular elastic ring adapted to envelope the thigh of the user, a sleeve in communication with the inner upper edge of the ring, a flexible tube connecting the crotch sleeve and ring sleeve, and a manually controlled drainage valve in communication with the bottom edge of said ring.

GEORGE E. KURTZ.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
940,077	Sherman	Nov. 16, 1909

FOREIGN PATENTS

Number	Country	Date
5,510	Germany	June 12, 1879
328,601	Germany	Apr. 9, 1919