

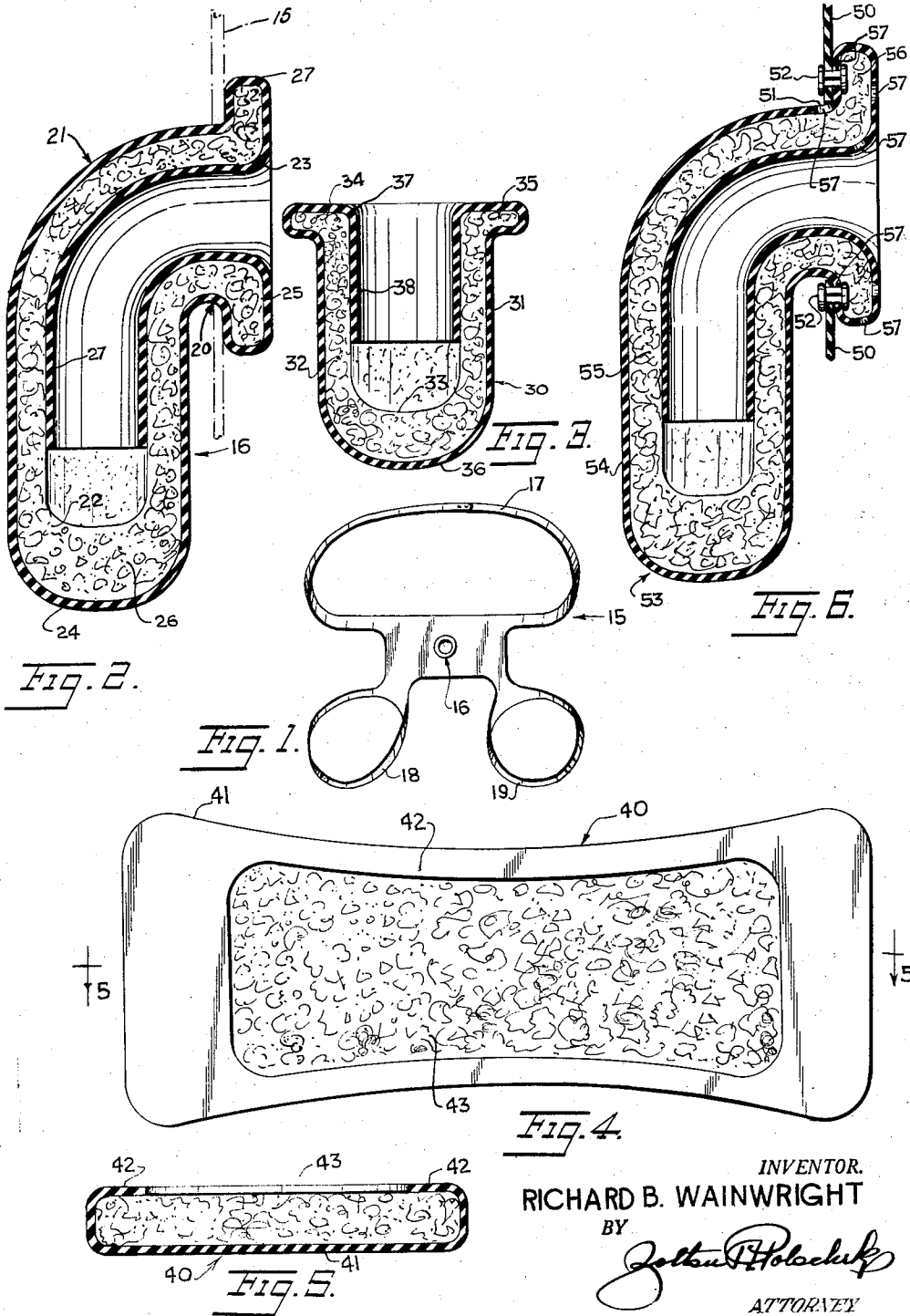
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DISPOSABLE URINE DRIP ABSORBING DEVICE

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DISPOSABLE URINE DRIP ABSORBING DEVICE

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3 Claims. (Cl. 128—295)

This invention relates to new and useful improvements in devices for catching and absorbing urine drip.

More particularly, the present invention proposes the construction of an improved urine drip absorber which will catch and absorb residual urine released as a result of prostatic surgery, loss of sphincter control or other conditions that cause dripping or partial loss of urine.

There are a number of cases in which a urine drip absorber becomes necessary and hithertofores diapers or improved substitutes have had to be used. Urine drip or loss occurs after prostatic surgery, where certain nerve injury has occurred, in various neurological diseases and where there is sphincter weakness. A similar condition often exists as to bed-wetting in children.

A further object of the present invention is to provide a disposable substitute for diapers which can also be used in addition to diapers so that the disposable liner can be disposed of only when urination takes place, saving a diaper change.

Another object of the invention is to provide a waterproof resilient shell with an absorbent liner constructed and arranged so that the shell will fold over into the liner spacing and separating body portions of the user from the liner and moisture absorbed thereby to prevent scalding or other irritation.

Still further, the invention proposes constructing the device with a belt and shell having coating fastener elements so that the shell can adjustably be mounted on the belt and the liner disposed in the shell so as to fit the needs of any particular patient or user.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a top plan view of a disposable urine drip absorber constructed and arranged in accordance with the present invention.

Fig. 2 is an enlarged sectional view of the shell and liner shown in Fig. 1.

Fig. 3 is a view similar to Fig. 2 but illustrating a modification of the present invention.

Fig. 4 is a plan view of another disposable urine drip absorber illustrating another modification of the invention.

Fig. 5 is a reduced sectional view taken on line 5—5 of Fig. 4.

Fig. 6 is a view similar to Fig. 2 but illustrating still another modification.

Referring more particularly to the drawings, the absorber in accordance with the first form of the invention shown in Figs. 1 and 2 has a belt 15 with a cup member 16 removably secured to it.

Belt 15 for carrying the cup member 16 may be of any type that will suspend or support the cup member by means of waist, hips, legs or other suitable method.

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It may be made of rubber, latex, elastic or other suitable material and fastened by any suitable means. As shown, the belt has a waist encircling band 17, two leg straps 18 and 19 and a cup member receiving opening 20. The belt, as illustrated, is made in a single piece of resilient material, with the cup member receiving opening 20 of the belt disposed in front.

Cup member 16 has a flexible, waterproof, resilient shell 21 and an absorbent liner 22 which is removably mounted in the shell. The shell 21 may be made of latex, rubber, plastic or any similar waterproof material. The liner 22 may be made of cellulose, cotton, paper or any other suitable absorbent material.

Both the waterproof shell 21 and the absorbent liner 22 are tubular, the shell having an upper open end 23 and a closed lower end 24 and the liner having an upper open end 25 and a closed lower end 26. The liner removably fits inside the shell and the upper end portion 27 of the shell folds over the upper end of the liner and into the shell. The lengths of the shell and the liner are such that the upper end portion of the shell folded over the upper end of the liner and into the shell covers a portion of the upper portion of the liner but is spaced from the lower end of the liner. In this manner, body portions of the patient or user are protected from contact with the liner and from burns or irritation from urine absorbed by the liner or discomfort from contact with moisture in the liner.

The liner may be treated with any deodorizing material desired, either in solid or liquid form.

It will be apparent that the absorber will afford the greatest amount of protection and at the same time afford the greatest amount of absorption. The shell, which may be made as a coating around the liner, will protect bedding or clothing and will safeguard against urine scalding. Moreover, the absorber may also be used for medication purposes where volatile or aromatic medicines are used in the liner.

The modification of the invention illustrated in Fig. 3 is characterized by a cup member 30 having an outer flexible, resilient, waterproof shell 31 and an inner absorbent liner 32 which are formed in U-shape form rather than in the gooseneck form of Figs. 1 and 2. Liner 32 has a lower closed end 33 and an open upper end 34 with a flange 35. Shell 31 has a lower closed end 36, an upper open end 37 and an upper end portion 38 which folds over the flange 35 of the liner and down into the shell terminating short of the bottom of the liner.

The modification of the invention shown by Figs. 4 and 5 is characterized by a cup member 40 for female users or patients. Member 40 has an outer waterproof, flexible, resilient shell 41 with outer edge portions 42 which fold over a part of an absorbent liner 43 removably to mount the liner in the shell.

It is to be understood that this type of absorber may be made of any suitable size and shape. The female type of absorber as shown in Figs. 4 and 5 may also be used for menstrual discharge protection. This type of absorber may also be used where wet dressing and the application of contact medication is indicated.

The modification of the invention illustrated in Fig. 6 is characterized by the provision of a belt 50 having a cup member opening 51 adjacent to which are fastener elements 52. A cup member 53 having an outer waterproof, flexible, resilient shell 54 and an inner absorbent liner 55 is removably mounted in the opening 51 of the belt 50. The liner 55 is gooseneck-shaped with an upper flange 56, and the shell is slidably mounted on the liner with an upper end portion extending over the flange 56 of the liner and down into the shell terminating short of the bottom of the liner. Shell 54 is provided with a plurality of spaced fastener element openings 57 which coat-

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with the belt fastener elements 52 for adjusting the cup member on the belt and raising or lowering the overhang of the upper portion of the shell into the shell. At the same time, the fastener elements provide means to raise and lower the bottom of the liner. In this manner adjustment to suit any particular user can be made and adjustments for the comfort of the user are possible.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit my self to the precise constructions herein disclosed and that various changes and modifications may be made within the scope of the invention as defined in the appended claims.

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

1. A disposable urine drip absorber comprising a belt, a cup member removably secured to the belt, said cup member having a flexible, resilient, waterproof shell and an absorbent disposable liner removably mounted in the shell, said shell having an upper end portion adapted to fold over the upper end portion of the liner and into the shell, said upper end portion of the shell being spaced from the lower end of the liner.

2. A disposable urine drip absorber comprising a belt, a cup member removably secured to the belt, said cup member having a flexible, resilient, waterproof shell and an absorbent disposable liner removably mounted in

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the shell, said shell having an upper end portion adapted to fold over the upper end portion of the liner and into the shell, said waterproof shell and said absorbent liner being tubular with an open upper end and a closed lower end, said upper end portion of the shell being spaced at all times from the lower end of the liner by the relative lengths of the shell and the liner.

3. A disposable urine drip absorber comprising a belt, a clup member removably secured to the belt, said cup member having a flexible, resilient, waterproof shell and an absorbent disposable liner removably mounted in the shell, said shell having an upper end portion adapted to fold over the upper end portion of the liner and into the shell, and means to adjust the cup member on the belt and to raise and lower the overlap and fold of the shell upper end portion over the liner and into the shell, said means being spaced coacting members on the belt and on the shell.

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