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[54] **URINAL BAG**
2 Claims, 3 Drawing Figs.

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[51] Int. Cl. **A61f 5/44**

[50] Field of Search **128/275,**
294, 295

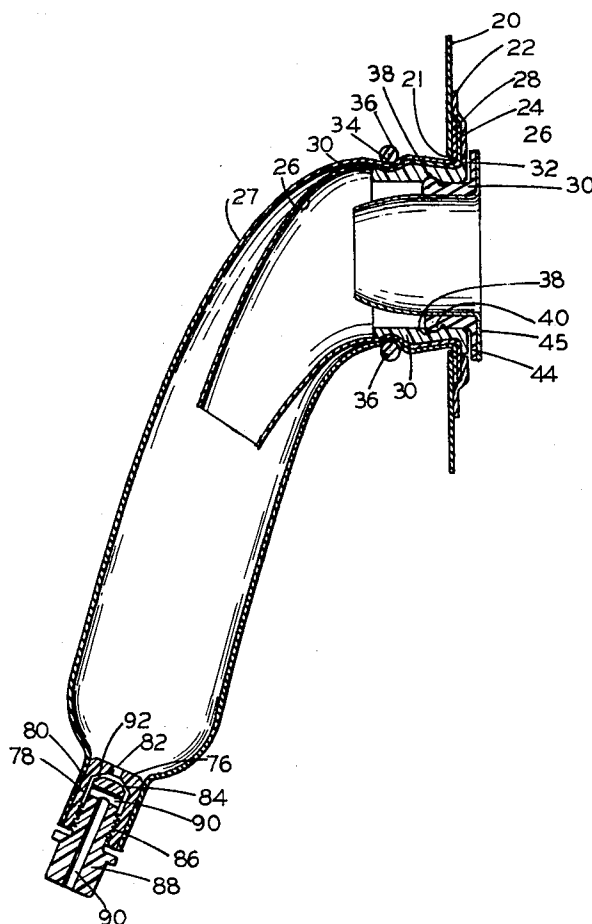
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ABSTRACT: Urinal pouch having a resilient support of sheet surgical rubber with a central aperture, a pouch having a manual lower valve with its upper open end annularly bonded around the support aperture, a tubular conical resilient open ended sheath extending from the open end of the pouch and part way therein, said sheath being annularly bonded about the aperture, a rigid insert having a short sleeve portion extend into and slightly distending the pouch and sheath, and a flange disposed behind the peripheral area, the sleeve having an external groove, a resilient sealing band disposed around the pouch and conical sheath and annularly compressing the pouch and conical sheath into the groove, the short rigid sleeve having an internal groove, an insert of resilient material having a short sleeve with an annular bead adapted to seat in the internal groove, and a flange adapted to bear against the flange of the rigid insert, the resilient insert having a second tapered tubular resilient sheath extending through the resilient insert, and having a flange portion bonded to the resilient insert flange, and the support having right and left upwardly inclined extensions detachably connected by a resilient back strap, and right and left downwardly inclined extensions of a length to extend around a leg, and buckle means on the first extensions to receive the ends of the downwardly extending extensions.



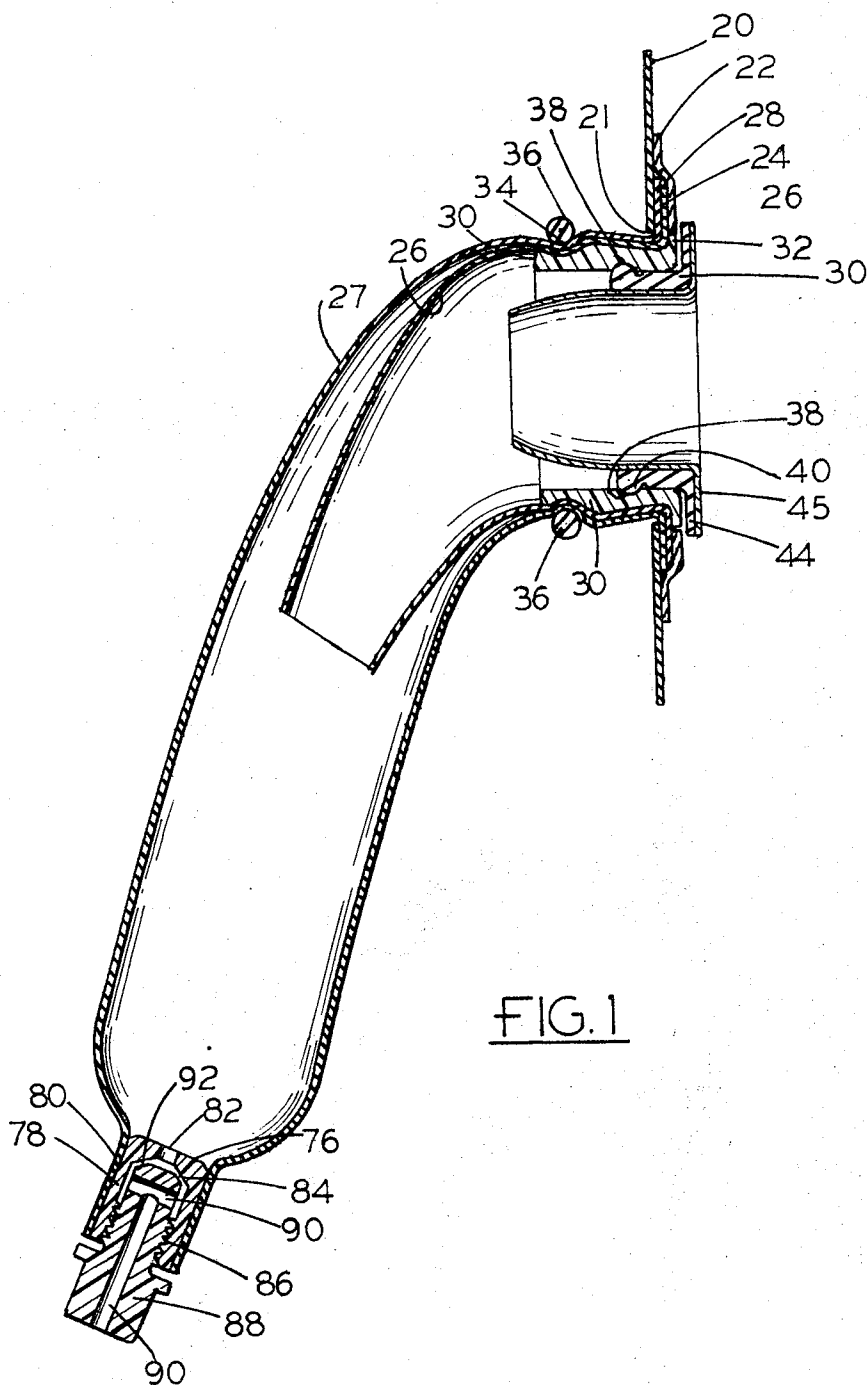


FIG. 1

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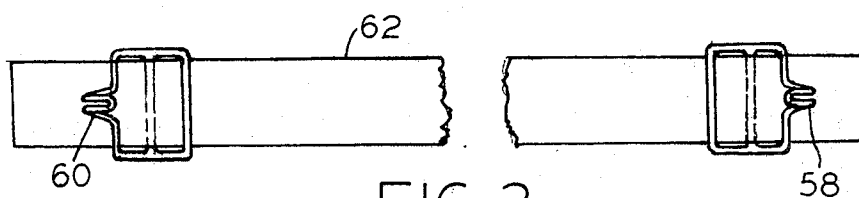


FIG. 3

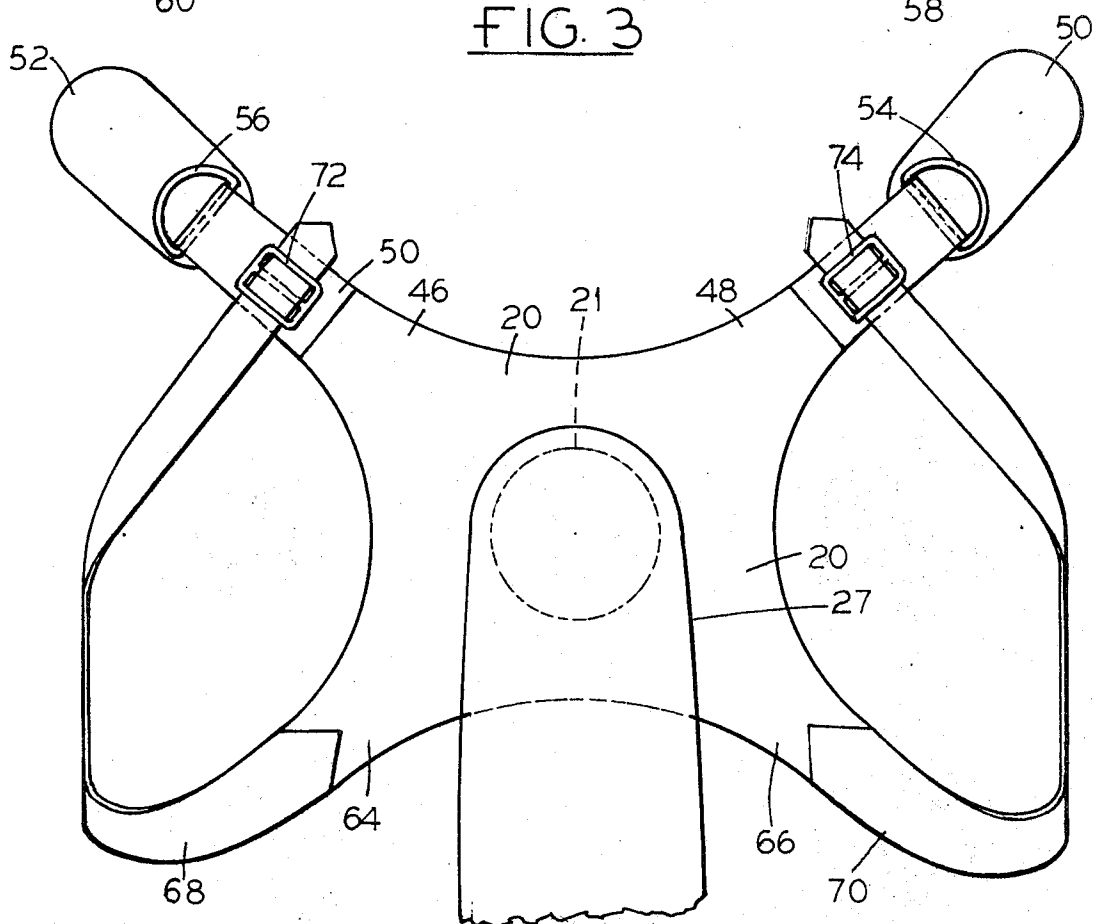


FIG. 2

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URINAL BAG

This invention relates to a male urinal bag or pouch capable of being worn continuously, and without danger of leakage or embarrassment when worn by fully clothed persons in erect or prone position.

More particularly the invention relates to a pouch of flexible semi-resilient waterproof material extending from a support panel having leg and waist straps to comfortably secure the device in place. The pouch is provided with a manually actuated valve at its free end to permit drainage when convenient. Further the pouch includes an inner resilient flexible tapered tubular open ended sheath, to provide a sealing effect in conjunction with the male organ of the wearer. Provision is also made for insertion of a further resilient tapered tubular sheath of lesser diameter which may be inserted or removed as required.

The above and other novel features of the invention will appear more fully hereinafter from the following detailed description when taken in conjunction with the accompanying drawings. It is expressly understood that the drawings are employed for purposes of illustration only and are not designed as a definition of the limits of the invention, reference being had for this purpose to the appended claims.

In the drawings, wherein like reference characters indicate like parts:

FIG. 1 is a sectional view of the bag and a portion of the support;

FIG. 2 is a front elevation of the support and pouch, the latter being in part broken away; and

FIG. 3 is a plan view of the back strap, with part broken away.

Referring to the drawings there is shown a support composed of relatively resilient surgical rubber sheet material, having a central panel area or section 20, with an aperture 21. Extending through the aperture is the open end of a pouch 27 of resilient surgical rubber, the open end having a flange 28 bonded to the rear of the central area. Within the pouch is a conical resilient open ended sheath 26 having a flange 24 cemented over or bonded to the flange 28. An annular reinforcement 22 overlies the flanges 24 and 28 and is bonded thereto and to the surrounding back face of the section 20.

A sleeve of nylon or other relatively rigid material 30, having a flange 32 is disposed in the upper end of the pouch and sheath 26, with the flange 32 disposed behind the annular reinforcement 22. The exterior of the sleeve is provided with annular grooves, in one of which, as at 34, the pouch and conical sleeve are seated by pressure of the resilient tension band 36. The pouch and sheath are resiliently distended over the sleeve 30. The internal bore of the sleeve 30 is provided with an internal annular groove 38 adapted to yieldingly receive the external bead 40 of the flanged sleeve 42, the flange being indicated at 44. A resilient conical open ended sheath 43 of a smaller diameter and shorter length than the sheath 26 is disposed in the sleeve 43, and has a flange 45 cemented to the flange 44.

The central support area or section 20 is provided with right and left integral upwardly inclined extensions 46 and 48, each having a body pad 50 beneath D shaped rings 54 and 56. The rings 54 and 56 are adapted to receive the detachable snap hooks 58 and 60 adjustably disposed on the opposite ends of a resilient woven strap 62, which is of a suitable length to extend about the wearer's back. The hooks 58 and 60 are adjustably disposed on the ends of a resilient woven strap 62, to provide suitable tension when the hooks 58 and 60 are secured to the respective rings 54 and 56. The section 20 is also provided with left and right downwardly inclined extensions 64 and 66 having integral resilient soft rubber elongated strap extensions 68 and 70. The strap extensions are of a suitable length to extend below the crotch and behind and around the respective

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legs of the wearer, the strap extensions being adapted to be adjustably connected to respective friction strap engaging buckles 72 and 74 disposed on each of extensions 46 and 48 at substantially right angles to the extension. Thus the straps 68 and 70 may extend crosswise of the extensions 46 and 48. The support, or harness as it may be referred to, is adapted to hold the center area 20 flat against the lower abdomen in the scrotum area of the wearer, with the male organ of the wearer projecting into the sleeves 42 and 30 (when both are used) or sleeve 30, when the sleeve 42 is removed to provide for a larger aperture. In either case the conical resilient sheath 26 (or sheath 43 if employed) resiliently embraces the male organ and provides a seal.

The lower end of the pouch is provided with a valve comprising a rigid thimble like seat member 76 of nylon or the like, with its external cylindrical side wall 78 cemented or otherwise bonded to a reduced diameter lower end portion 80 of the pouch. The upper wall of member 76 has a central aperture 82, surrounded on its inside by a conical valve seat 84. The internal wall of the member 76 is threaded as at 86 to receive a threaded plug 88 having a T bore 90 and a conical frustum end portion 92 adapted to engage the seat 84 and seal the opening 82, when the plug is threaded upwardly into the thimble to its upper limit. The lower end of the plug, below the flange 94 is flattened to provide a grip, whereby to facilitate turning and threading the plug manually into sealing relation with the aperture 82, or away from sealing relation, whereby to permit flow of fluids in the pouch outwardly through the T bore 90 for drainage, whenever conveniently desirable. It will be seen from the foregoing that the sleeve 42 is readily inserted or removed, as required to provide the additional sheath 43 for sealing purposes.

While a single form of the invention has been illustrated and described, it is to be understood that the invention is not limited thereto. As various changes in the construction and arrangement may be made without departing from the spirit of the invention, as will be apparent to those skilled in the art, reference will be had to the appended claims for a definition of the limits of the invention.

I claim:

1. In a urinal pouch adapted for wear by male individuals, a resilient support of surgical rubber or the like sheet material having a central apertured section, a pouch the lower end of which is fitted with a manual valve and the upper open end of which is annularly bonded to the support aperture peripheral area, a tubular conical resilient open ended sheath extending from the open end of the pouch and part way thereinto, said sheath being annularly bonded about the aperture peripheral area, a relatively rigid insert of nylon or the like having a short sleeve portion of a diameter to extend into and slightly distend the pouch and conical sheath adjacent the pouch open end, and a flange adapted to be disposed behind the peripheral area said sleeve having an external groove, a resilient sealing band disposed around the pouch and conical sheath and annularly compressing the pouch and conical sheath into the groove, said short rigid sleeve having an internal groove, and an insert of resilient material having a short sleeve with an annular bead adapted to seat in said internal groove, and a flange adapted to bear against the flange of the rigid insert, said resilient insert having a second tapered tubular resilient sheath extending through the resilient insert, and having a flange portion bonded to the resilient insert flange.

2. A urinal pouch according to claim 1 wherein the support comprises right and left upwardly inclined extensions detachably connected by a resilient back strap, each extension having a transverse buckle, and right and left downwardly inclined extensions, each of a sufficient length to extend around the leg of the wearer to one of said transverse buckles, for securing therein.