

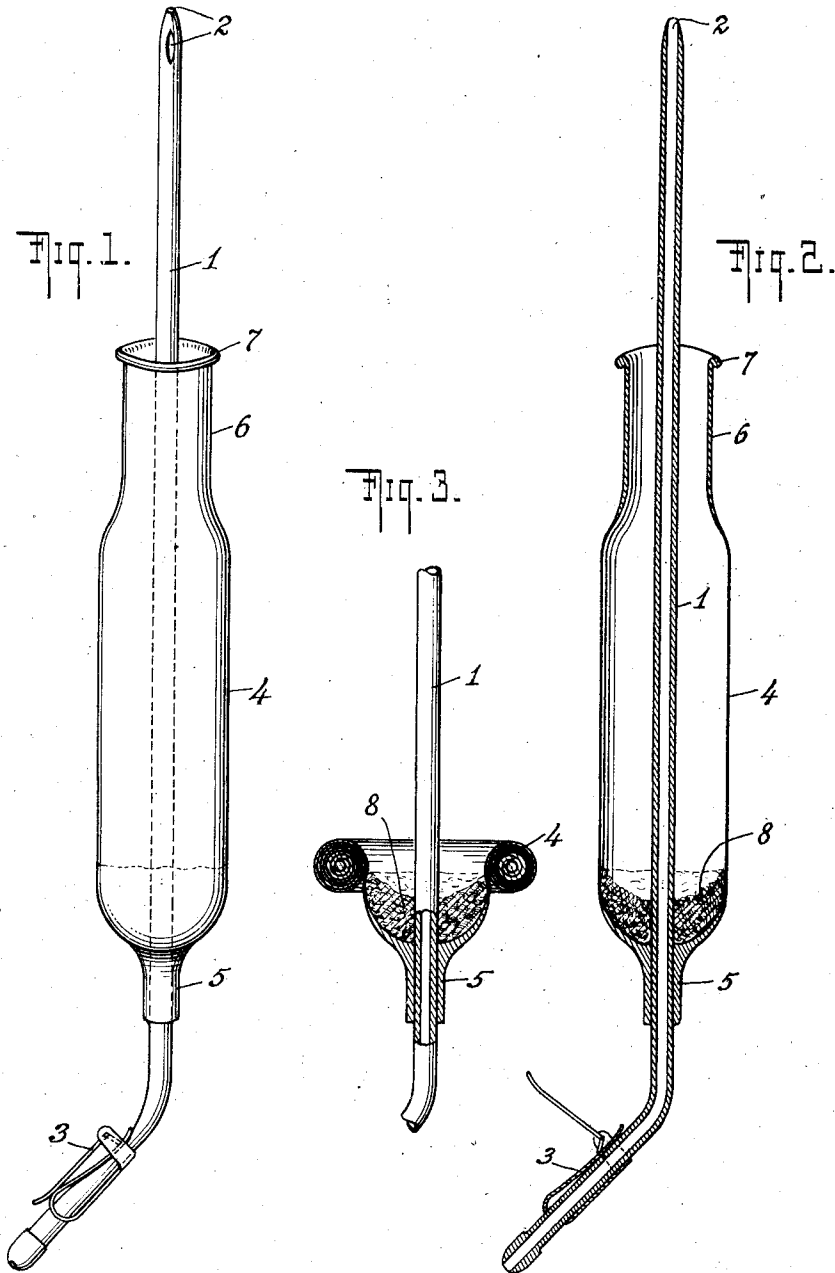
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CATHETER

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CATHETER.

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It is well known that one whose physical condition requires the drainage of the bladder by means of a catheter finds it inconvenient to have his wants attended to without periodic services of a physician. The purpose of the present invention is to provide a catheter, or drainage tube, with a support in the form of an envelope through which the tube is extended and to which it is secured, the construction being such that the user himself may adjust the tube and by means of the support afforded by the envelope continue to wear the device with comparative comfort while attending to his daily duties and without resorting to his physician when necessity requires.

In the drawings, Figure (1) is a view in elevation of the catheter and its support; Figure (2) a central vertical section of the same, and Figure (3) a view partly in section and partly in elevation showing the envelope rolled back on itself.

Referring to the drawings the numeral "1" designates a drainage tube of usual and well known construction. It is preferable, for my purposes, that it be made of soft rubber and provided with openings (2) near its upper end through which the urine is permitted to enter the tube when inserted in the bladder in the usual manner. A clamp (3) of known construction encircles the tube near its lower end and permits the necessary discharge when released. In the embodiment of my invention illustrated in the drawings an envelope (4) of substantially greater diameter than that of the tube (1) surrounds a portion of the tube so that the latter projects at both ends beyond the envelope. At its lower end the envelope is secured to the tube preferably by forming the envelope with a short neck (5) having an internal diameter substantially the same as the external diameter of the tube and cementing the parts together or otherwise forming a firm union between them. The envelope is made of waterproof material, preferably soft rubber, and in that case the union between it and the tube (1) may be made by using a vulcanizable cement. At its upper end the envelope is free from the tube and is provided with any convenient means for holding it on the wearer when adjusted in position. Preferably this is effected by making the entire envelope of rubber or of an elastic fabric, or at least the upper or neck portion (6) thereof may

be so made. Thus by reason of its elasticity the envelope will retain both itself and the tube in proper position upon the wearer and avoid the use of tying tapes or other holding means. If desired, the mouth of the envelope may be formed with a relatively heavy bead (7) to provide additional security in holding the device in place.

The device being more particularly intended for men is applied as follows: The drainage tube is passed through the urethra, as is usual until the upper end thereof enters the bladder and is in position to drain the same through the openings (2). In so adjusting the tube the envelope (4) is drawn over the penis and by reason of its elasticity, or of the contracted neck portion (6) thereof, a substantially tight fit is secured at least sufficient to hold the envelope and tube in proper position. The device can be worn without discomfort thus enabling the user to go about his daily duties without requiring the services of a physician to attend to his wants. When the bladder is to be discharged it is readily done by releasing the clamp (3).

In applying the device it can be done by rolling the envelope back upon itself as shown in Fig. 3. This permits the tube to be inserted without interference from the envelope and after the tube is properly positioned the envelope is unrolled so as to enclose the penis and be held firmly thereon.

If desired, absorbent cotton (8) may be placed in the lower part of the envelope to absorb any leakage occurring around the tube (1). When necessary the device may be removed, cleaned and replaced by the user himself.

What I claim is:

1. Means to enable at will drainage of the bladder irrespective of the condition of the sphincter muscle, comprising a drainage tube of a length to extend past the sphincter into the bladder, and means to hold the tube in place, comprising an envelope of a size to loosely receive the male organ, reduced at one end to provide a relatively short neck embracing the tube and secured thereto with a fluid tight joint, and reduced at the other end to provide a relatively long neck to embrace the organ thereby to support the envelope with the tube in place, said envelope being of resilient waterproof material, and the neck of a diameter to grasp the organ with sufficient firmness to hold the

same in place without injurious pressure on the organ, and a clamp upon the lower projecting end of the tube.

2. As an article of manufacture, means
5 enabling at will drainage of the bladder, comprising an envelope of waterproof material of a size to receive the male organ loosely, said envelope open at one end and
10 provided at the said end with a reduced neck of resilient material to embrace the organ whereby to retain the envelope in place

thereon, and a catheter tube extending through the envelope and well beyond the same at both ends and far enough at the open end to pass beyond the sphincter muscle of the bladder when the envelope is in place, the envelope secured to the tube at the closed end with a fluid tight joint, and a clamp upon the lower projecting end of the tube. 15

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