

Feb. 17, 1953

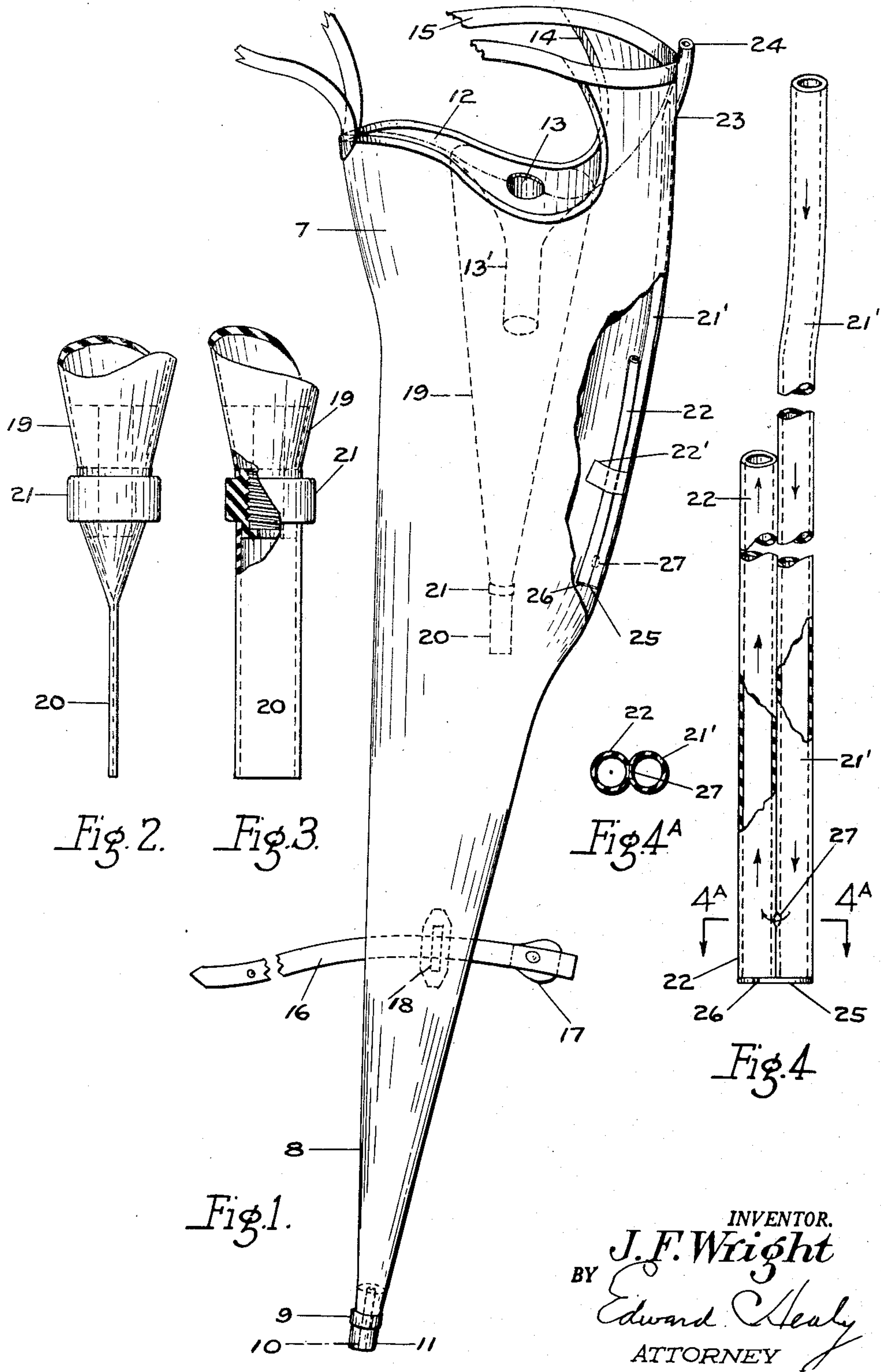
J. F. WRIGHT

2,628,617

PORTABLE URINAL

Filed Aug. 31, 1950

2 SHEETS—SHEET 1



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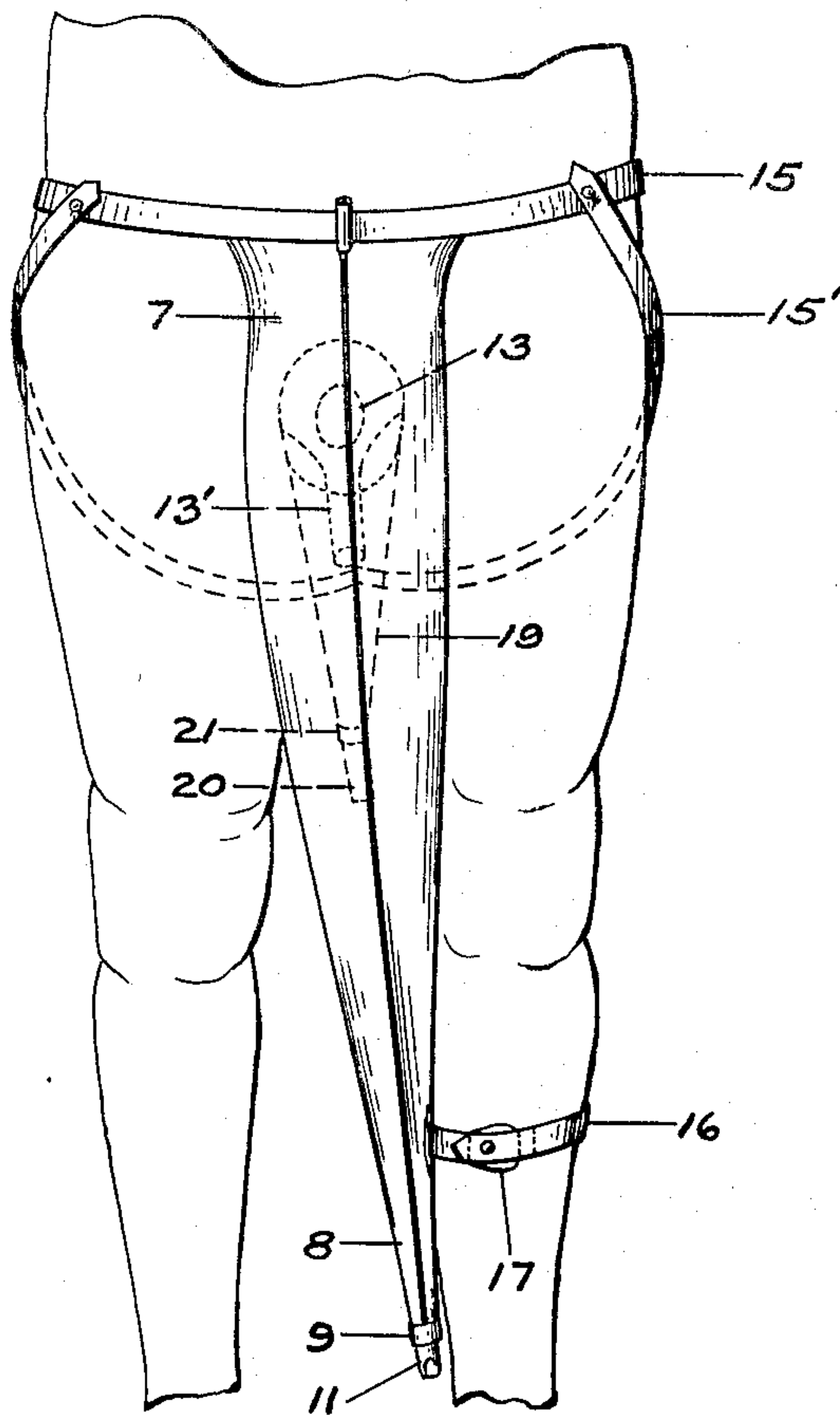
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UNITED STATES PATENT OFFICE

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PORTABLE URINAL

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1 Claim. (Cl. 128—295)

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This invention relates to improvements in portable urinals and has special reference to that type of urinals worn by males and females during the day.

An object of the present invention is the provision of a specially designed portable urinal to be worn by males and females during the day made of rubber or the like and preferably tapered and particularly shaped to extend downwardly from the waist of the wearer along one of the limbs, suitable straps being provided for attaching the device to the waist and limb.

Another object of the present invention is the provision of a specially constructed air vent tube in the upper portion of the urinal and to secure the same to the inner wall of the urinal.

A further object of the present invention is the provision of a penis or vaginal chamber within the urinal and to shape the same in the form of a funnel and provide a flat open passageway in the lower end portion thereof.

A still further object of the present invention is the provision of a portable urinal to be worn by males and females, which urinal is durable, flexible, simple in construction, economical to manufacture and highly efficient and serviceable in use.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawing forming a part of the specification wherein for the purpose of illustration like numerals designate like parts throughout the same,

Fig. 1 is a vertical elevational view of the improved portable urinal,

Fig. 2 is an enlarged side elevational view illustrating the lower end portion of a receptacle provided in the urinal,

Fig. 3 is an enlarged front elevational view of the same,

Fig. 4 is an enlarged vertical elevational view of two tubes connected one to the other and communicating one with the other to form the improved vent,

Fig. 4A is a horizontal sectional view taken through line 4A—4A of Fig. 4, looking in direction of the arrows, and

Fig. 5 is a front elevational view of the urinal disclosing the same as operatively connected to the user.

Referring in detail to the drawing and numerals thereof, the urinal which is made of a waterproof flexible material, such as rubber, comprises an elongated receptacle adapted to be removably secured to the waist and limb of the wearer, and

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is formed with an enlarged upper portion 7 and a reduced tapered lower portion 8, which lower portion is provided with a suitable collar 9 preferably made of hard rubber and formed with an outlet 10 as disclosed to advantage in Fig. 1. A conventional plug or valve 11 is provided for closing the outlet. The upper end portion of the urinal is formed with a covering 12, having an opening 13 in the central portion thereof for receiving the urine, which urine is conveyed into the receptacle through the tube 13'. The front end portion of the urinal is formed with an apron 14, which apron extends upwardly above the cover and suitable straps 15 and 15' are fixed to the upper extremity of the apron and top rear end portion of the urinal, the said straps being adapted to respectively encircle the waist and thighs of the wearer for supporting the urinal in an upright position. The lower tapered portion of the urinal is provided with a strap 16 having a buckle 17, the said strap horizontally extending through a loop 18 fixed to the urinal and is adapted to extend around the limb of the wearer for securing the same thereto.

An auxiliary receptacle 19 is provided within the upper portion of the urinal and is secured to the covering 12 thereof and is preferably funnel-shaped and is positioned around the opening 13 as disclosed to advantage in Fig. 1. A tubing or any other suitable liquid conveying means is fixed to the under surface of the said covering 12 in any suitable manner and extends downwardly therefrom within the said receptacle 19, whereby the urine is first conveyed in the receptacle and then led to the lower tapered portion of the urinal. The lower outlet end portion of the receptacle 19 is preferably formed flat, as at 20, in Fig. 3, but may have any suitable shape and is preferably connected to a collar 21, which collar is removably secured to the lower end portion of the receptacle 19 as disclosed to advantage in Figs. 1 and 3.

In Figs. 1 and 4 there is disclosed to advantage the improved method of venting the urinal and embodies in its construction two flexible tubes 21' and 22, both of which are mounted within the urinal, and fixed one to the other, and secured to the inner surface of the front wall thereof, the tube 21' extending through the front wall, as at 23 and projecting therefrom to and above the top of the urinal as at 24. A suitable cover 25 is fixed on the bottom of the said tubes and a pin point opening 26 is provided in the said bottom 25 and located in a position therein to admit air in the tube 22. Air com-

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munication is also provided between the said tubes by the opening 27 extending through the inner wall portions of both tubes.

The urine as a rule will not rise in the said urinal above the receptacle outlet valve opening 28 and due to the weight of the urine inside the receptacle any additional urine will be unable to enter through said opening. It will be noted that the urinal is so constructed that it cannot leak in any position except the down position which would require the wearer to be on his stomach. The venting of the urinal is such the ballooning of the same is positively prevented.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same and that various changes relative to the shape, size, material and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the sub-joined claim.

Having thus described my invention, I claim:

A urinal of the character described adapted to be worn by a person embodying in its construction an elongated receptacle formed of a flexible water-proof material and adapted to be vertically positioned on the wearer, said urinal being formed with an enlarged covered top portion and tapering therefrom to a reduced open ended bottom portion, the said covered top portion being formed with an inlet opening there-

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in for receiving the urine, an inwardly tapered auxiliary receptacle provided within the urinal, said auxiliary retainer extending downwardly from said top covering and around the inlet opening therein and adapted to receive urine passing through said inlet opening, means for venting the urinal, said means including two tubes of different lengths provided within the urinal and secured to the wall thereof, means closing the bottom of said tubes, the portion of the bottom closing the shorter tube having a reduced opening therein, the walls of both tubes having an opening providing communication from one tube to the other, the tube of the greater length extending upwardly to a position outside of the tube, means for removably securing the upper portion of the urinal to the waist of the wearer and means for removably securing the lower portion of the urinal to the limb of the wearer.

JAMES F. WRIGHT.

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

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