

(No Model.)

D. W. McKINNON.

MATTRESS PROTECTOR.

No. 371,342.

Patented Oct. 11, 1887.

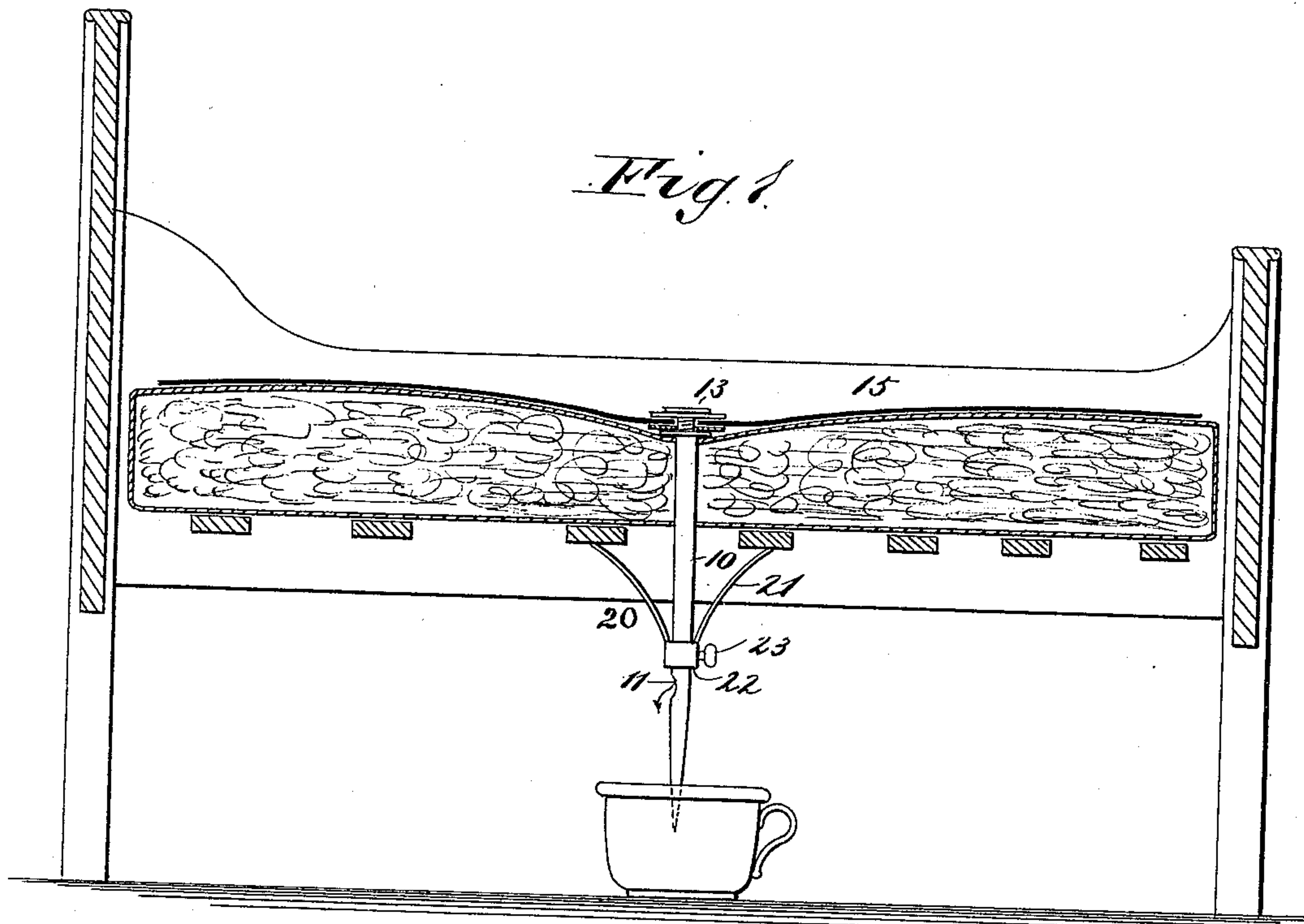
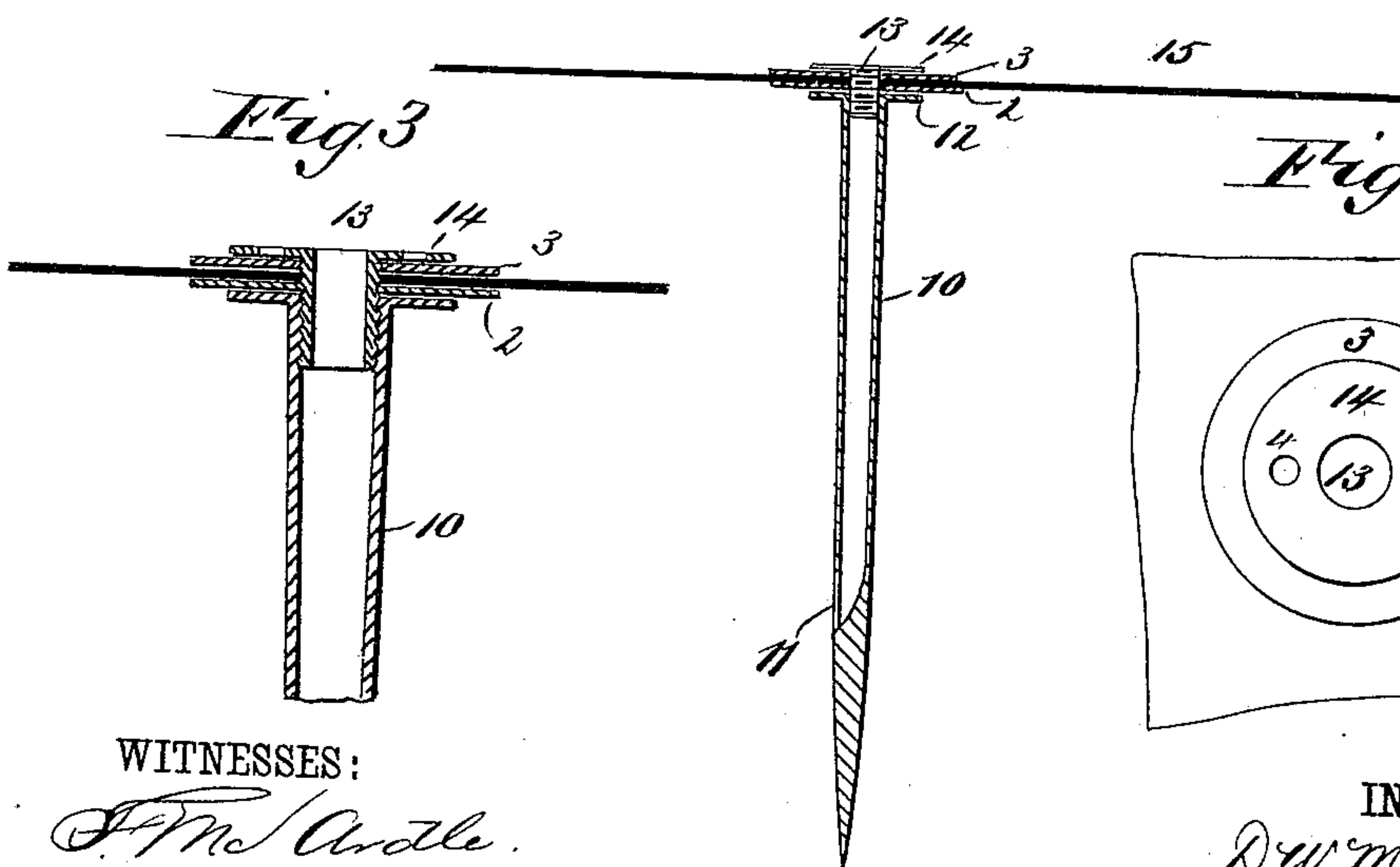


Fig. 2



WITNESSES:

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DUNCAN W. MCKINNON, OF NORTH SYDNEY, NOVA SCOTIA, CANADA.

MATTRESS-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 371,342, dated October 11, 1887.

Application filed February 7, 1887. Serial No. 226,743. (No model.)

To all whom it may concern:

Be it known that I, DUNCAN W. MCKINNON, of North Sydney, in the county of Cape Breton, Province of Nova Scotia, and Dominion of Canada, have invented a new and Improved Mattress-Protector, of which the following is a full, clear, and exact description.

This invention relates to an efficient and durable device applicable for use in connection with the beds of children and those afflicted with certain urinary difficulties, the objects of the invention being to carry off all urine which may be passed by the occupant of the bed in connection with which my protector is arranged.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a central longitudinal section of a mattress and bedstead, representing the same as being provided with my protector. Fig. 2 is a central vertical sectional view of the protector. Fig. 3 is an enlarged detail view of the upper part of the protector, the parts being shown in central vertical section; and Fig. 4 is a plan view of the protector, a portion only of the water-proof blanket being shown.

In constructing such an apparatus as the one illustrated in the drawings above referred to, I provide a tube, 10, the lower end of which is pointed, and in which there are formed one or more apertures, 11, that are located at or near the bottom of the tube-cavity. The upper end of the tube 10 is internally threaded, and a collar, 12, is formed about said upper end, as shown. An open cap or nut, 13, that is formed with an external thread, is arranged to engage with the internal thread of the tube 10, and this cap 13 is provided with a flange or collar, 14.

In applying my protector the tube 10 is disconnected from its cap and forced downward through the mattress, as shown in Fig. 1. A water-proof blanket, 15, in which there is a central hole or aperture, is then placed over the mattress, and the cap 13 is passed through the aperture and brought into engagement with the tube 10, rubber washers 2 and 3 being disposed between the blanket and

the flanges 12 and 14, respectively, as is clearly shown in the drawings. A spider or bracket, 20, is then placed in position so that its legs 21 will bear against the under sides of the bed-slats, the part 10 of tube being passed through a collar, 22, with which the spider is provided. The mattress and blanket 15 are then depressed, and a set-screw, 23, that is carried by the collar 22, is brought to bear against the tube 10, acting to clamp the parts together and hold the blanket and mattress in the position in which they are represented in Fig. 1—that is, so that there will be a depression at the part where the tube 10 passes through the mattress.

A proper receptacle should be placed beneath the tube 10, as shown.

In order that the cap 13 may be brought to a position to clamp the washers firmly against the blanket I provide the flange or collar of said cap with two or more holes, 4, that are arranged to be engaged by the prongs of a turn-screw; or any other means for obtaining a hold upon the cap might be employed.

With such a protector as has been described the mattress is protected and the occupant of the bed is rendered much more comfortable, all urine unconsciously or accidentally passed being carried off by the tube 10 to the receptacle placed beneath it.

I am aware of the existence of a water proof sheet applied to a mattress and having a pendent tube passing through the mattress, the latter being previously specially adapted to permit of the passage of such tube.

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

1. The mattress-protector comprising the pointed tube adapted to penetrate and pass through the mattress and provided with the water-proof blanket, being passed through and connected to said blanket, substantially as and for the purpose set forth.

2. The combination, with a pointed tube provided with a discharge-orifice and an upper flange, of a water-proof blanket, a cap formed with a flange and adapted to engage with the tube, and washers, arranged substantially as described.

3. In a mattress-protector, the pointed tube
provided with a discharge aperture or orifice
and with a water-proof blanket connected to
said tube, in combination with the spider or
5 collar provided with legs resting against the
under side of the bed-slats and with a collar
having a set or binding screw clamping said

tube within said collar, substantially as and
for the purpose specified.

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Witnesses:

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