

M. M. DOWNER.  
BUTTON AND LOOP CLASP.  
APPLICATION FILED JAN. 30, 1905.

Fig. 1.

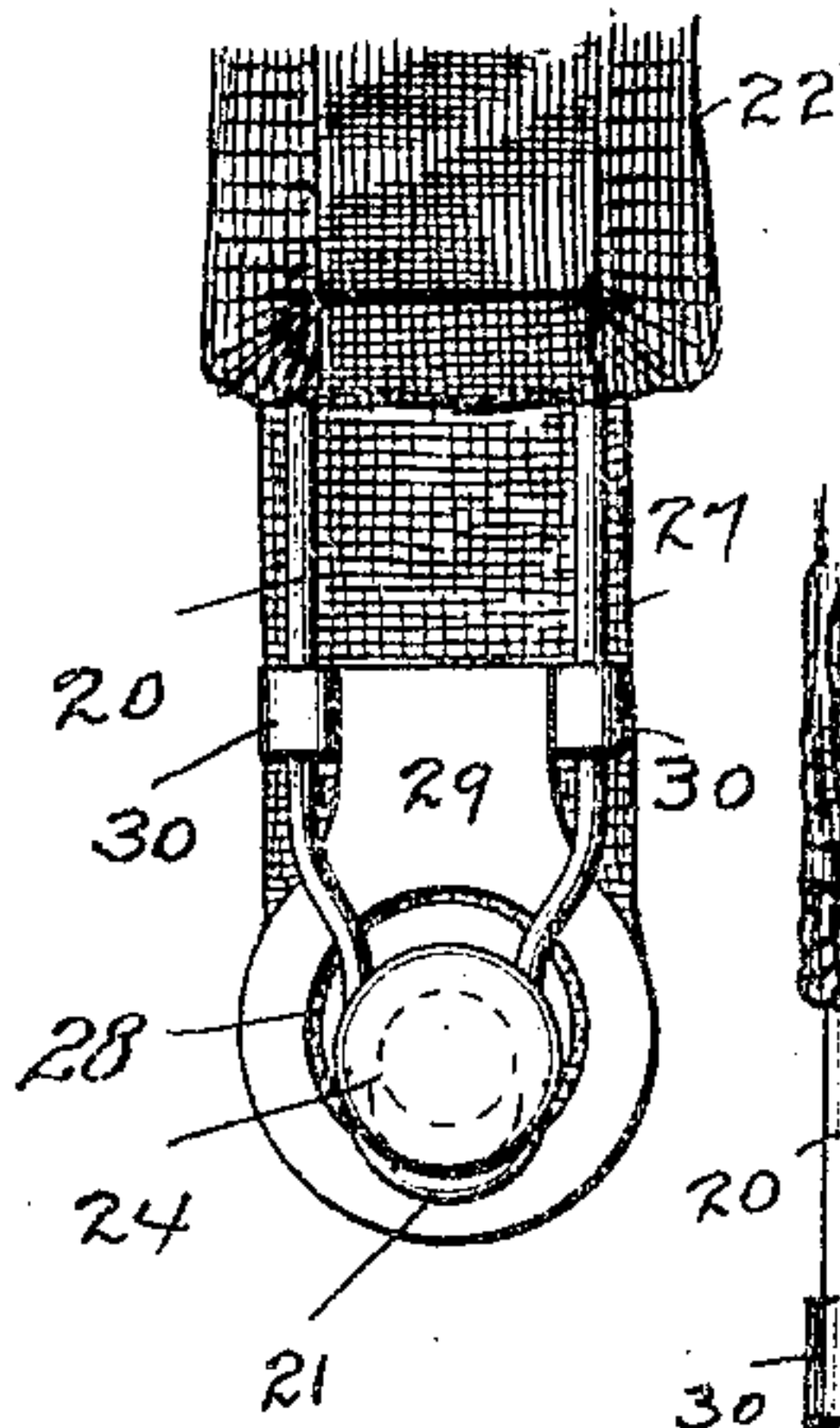


Fig. 3.

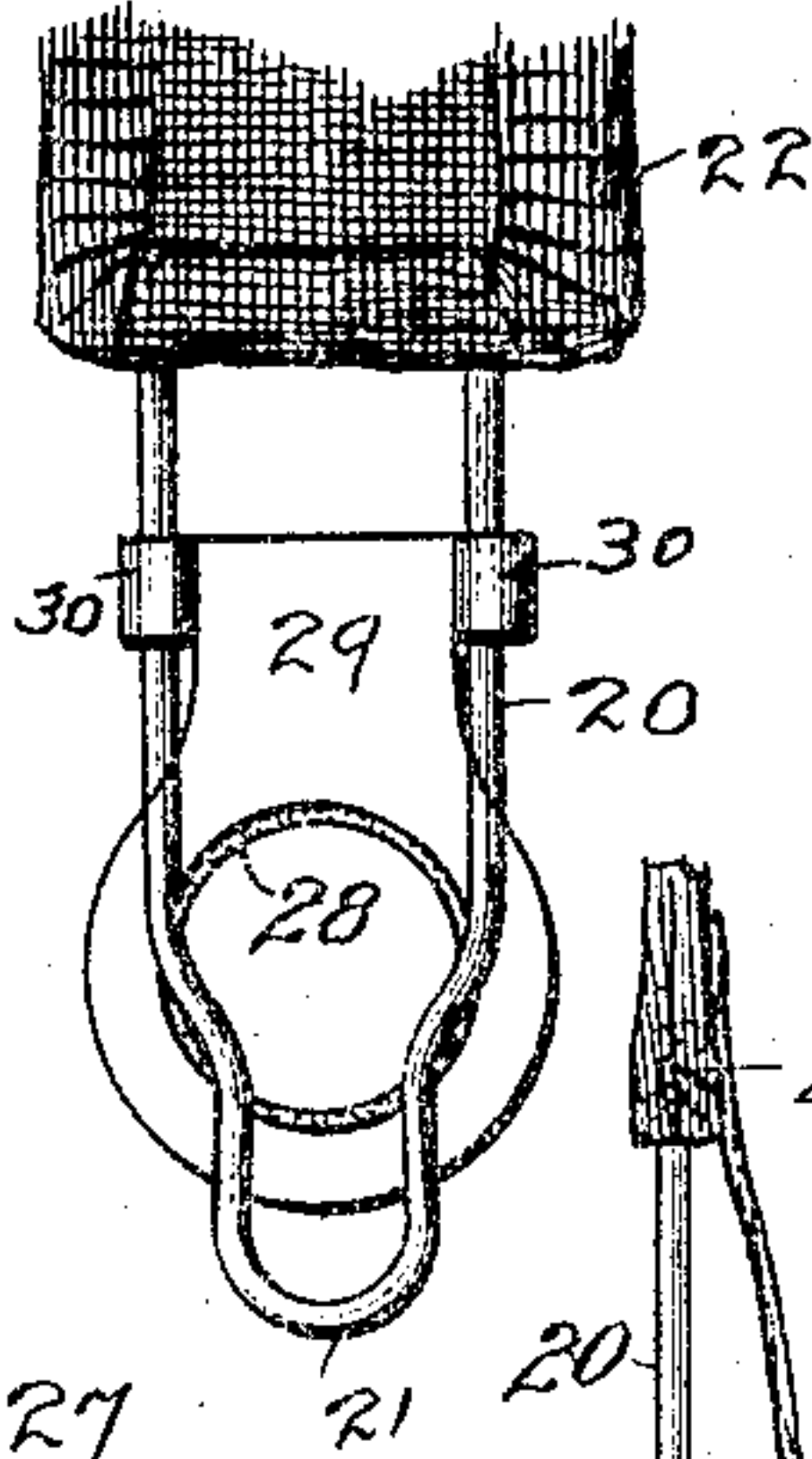


Fig. 4.

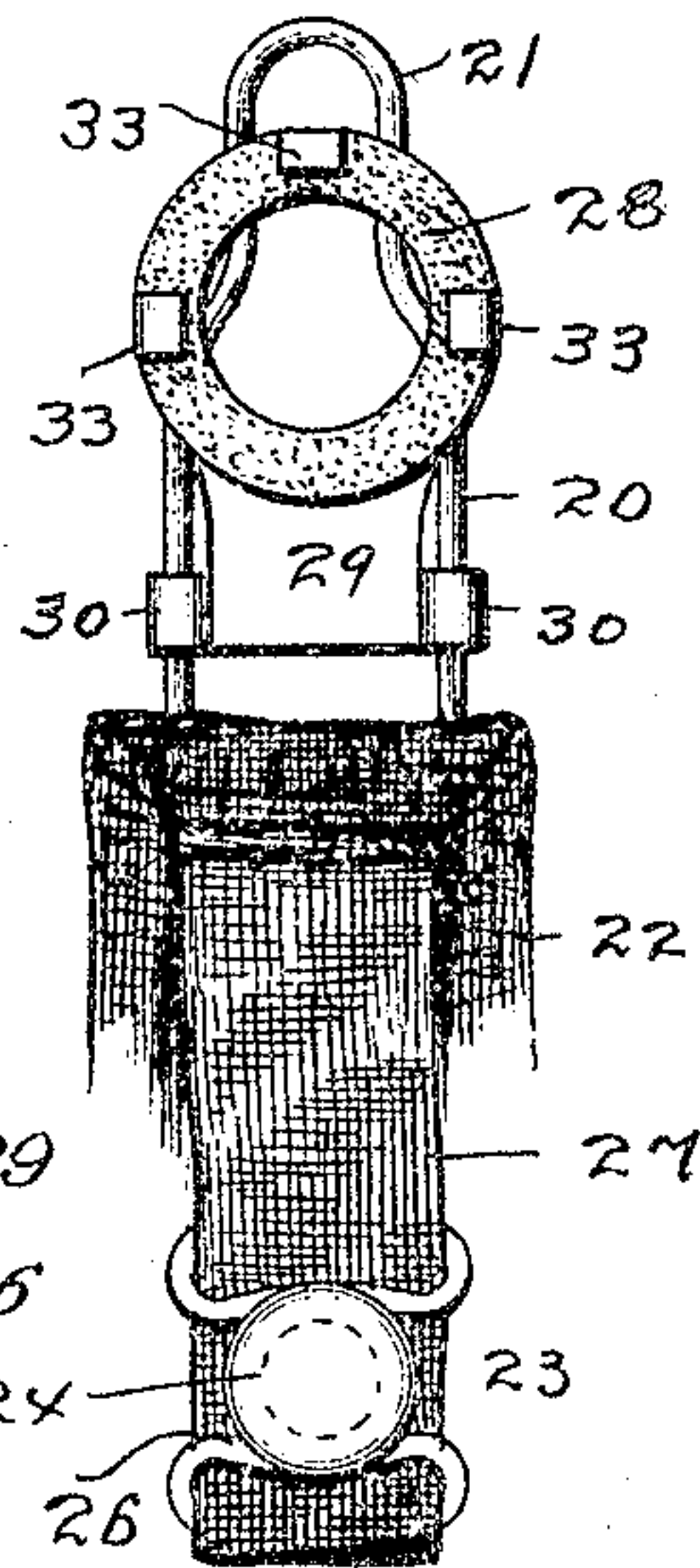


Fig. 2.

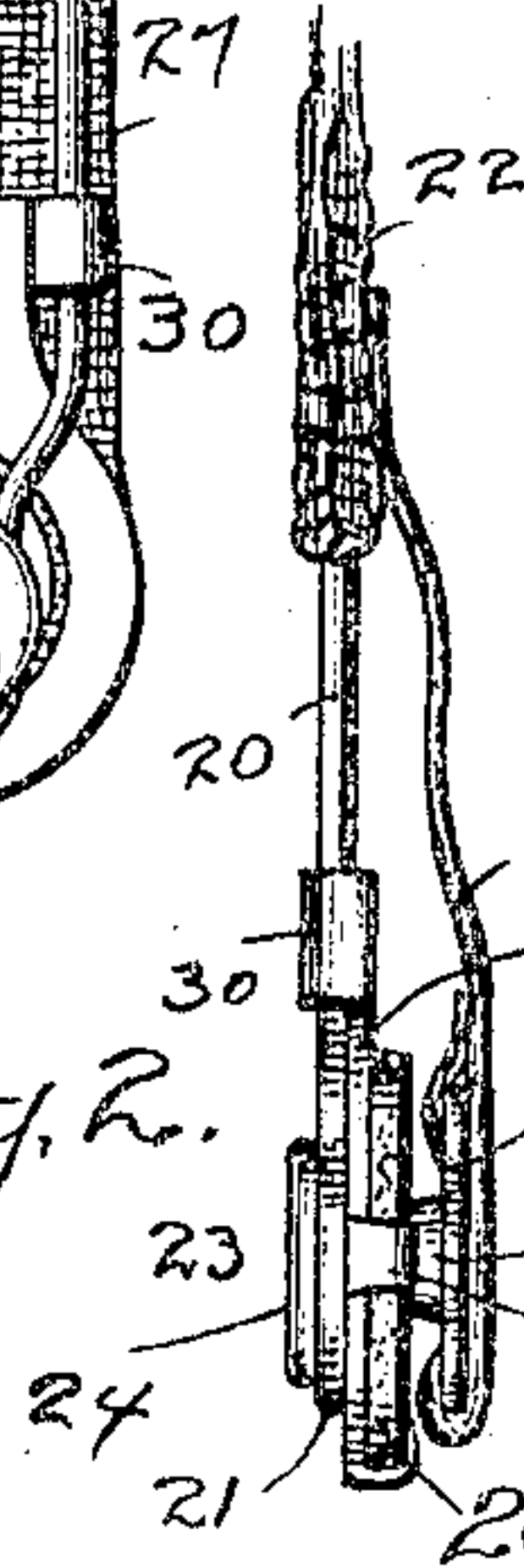


Fig. 13.

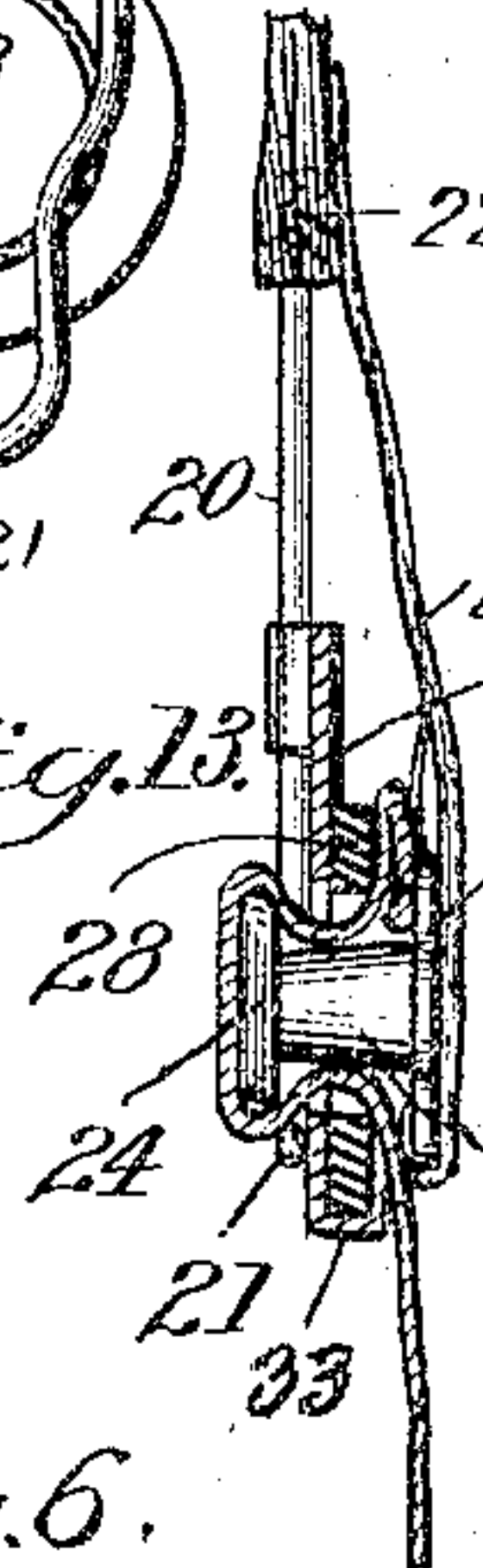


Fig. 5.

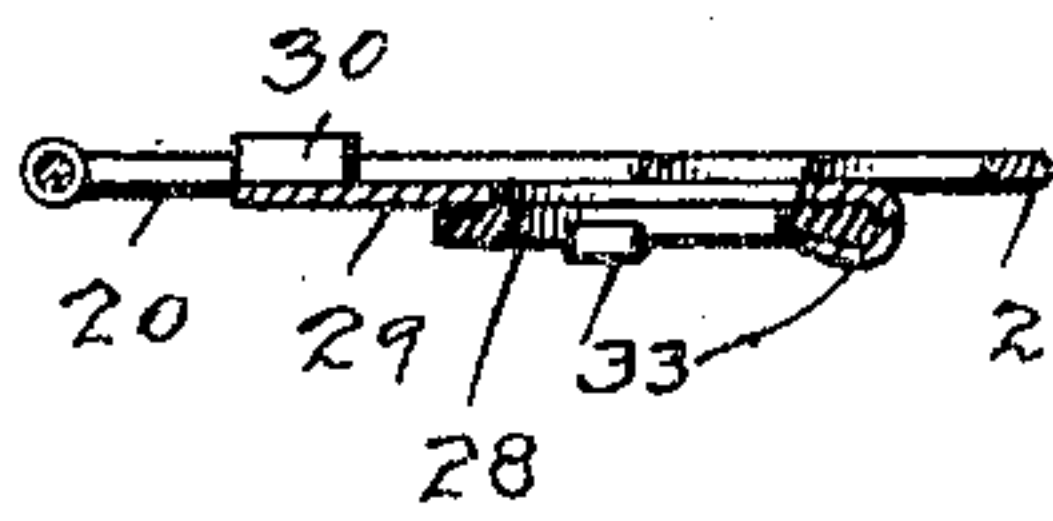


Fig. 6.

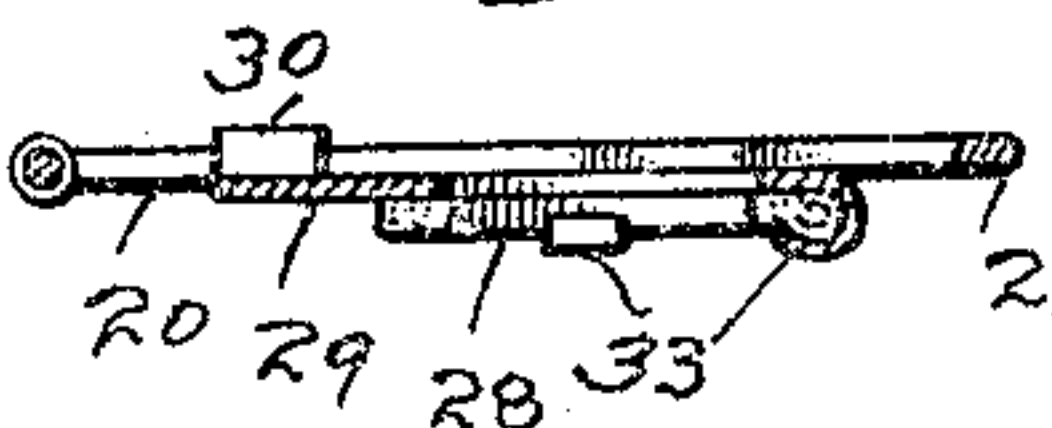


Fig. 7.

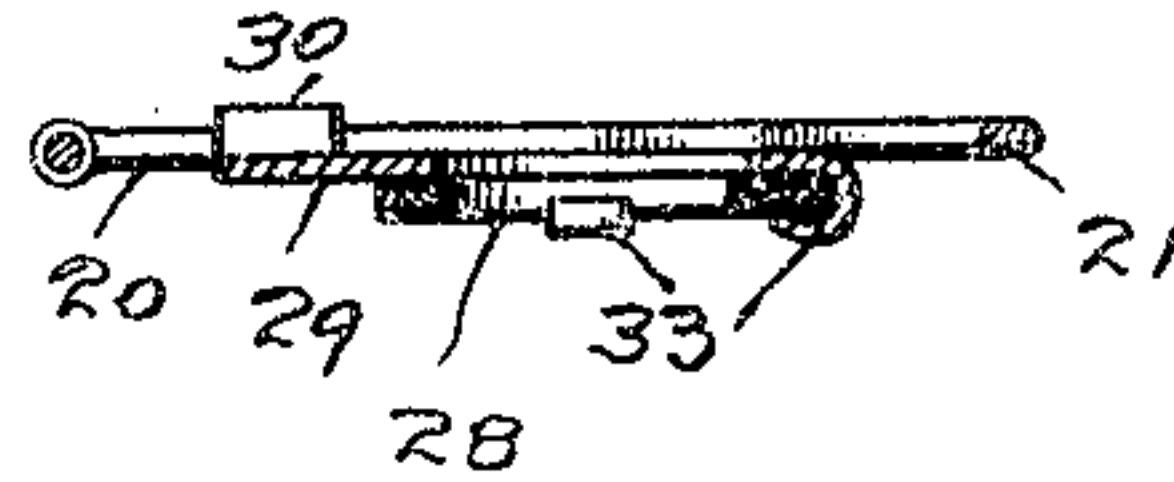


Fig. 8.

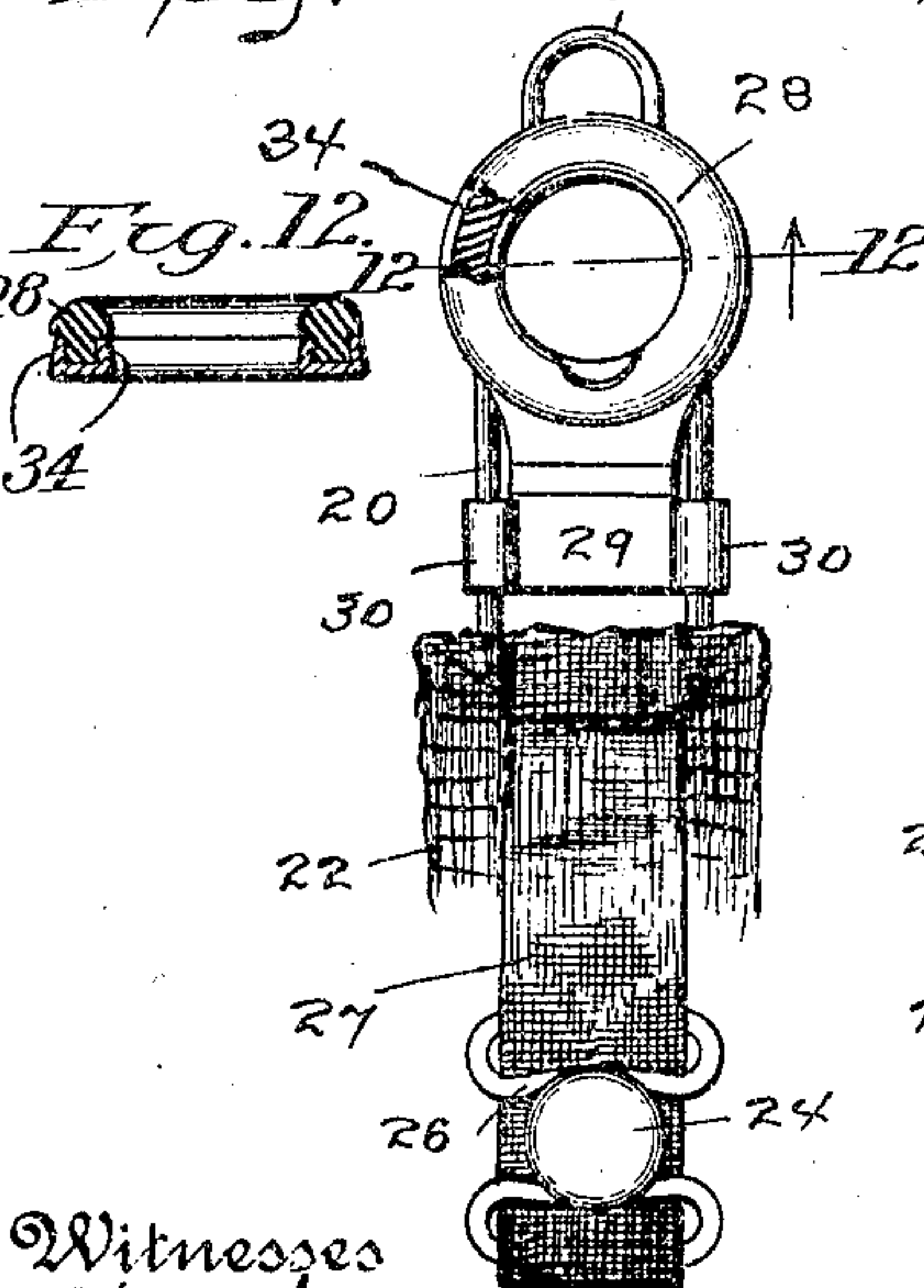


Fig. 9.

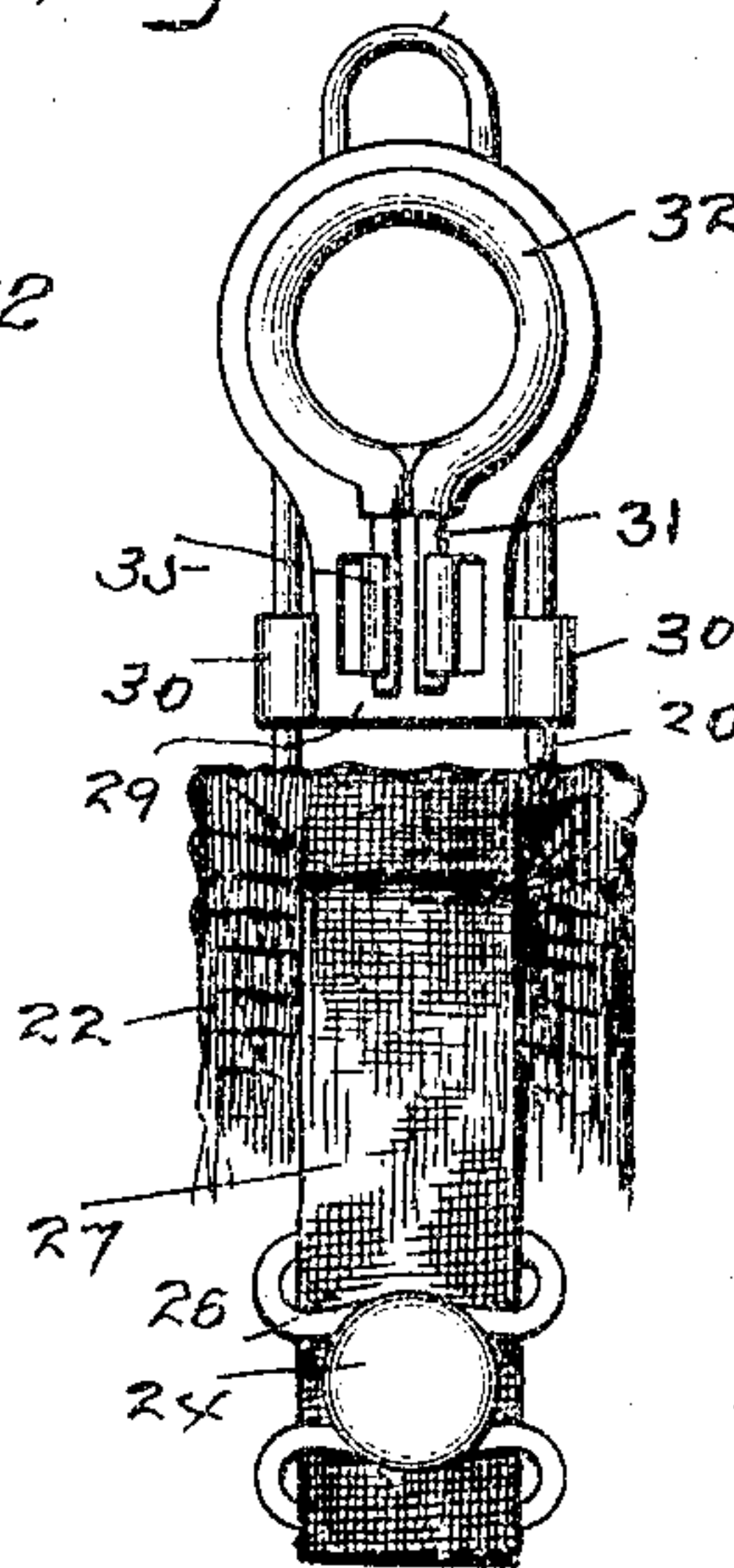


Fig. 10.

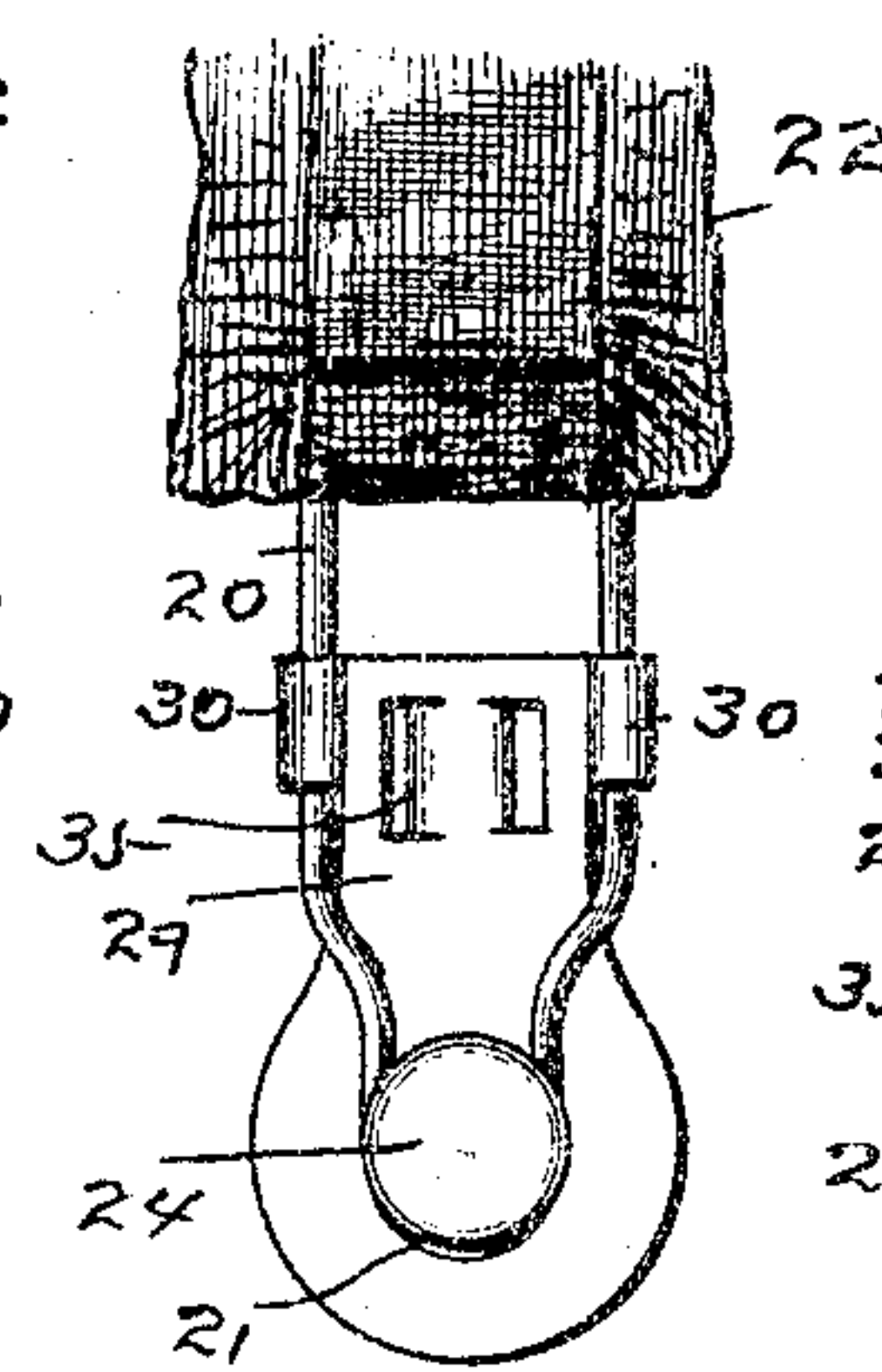
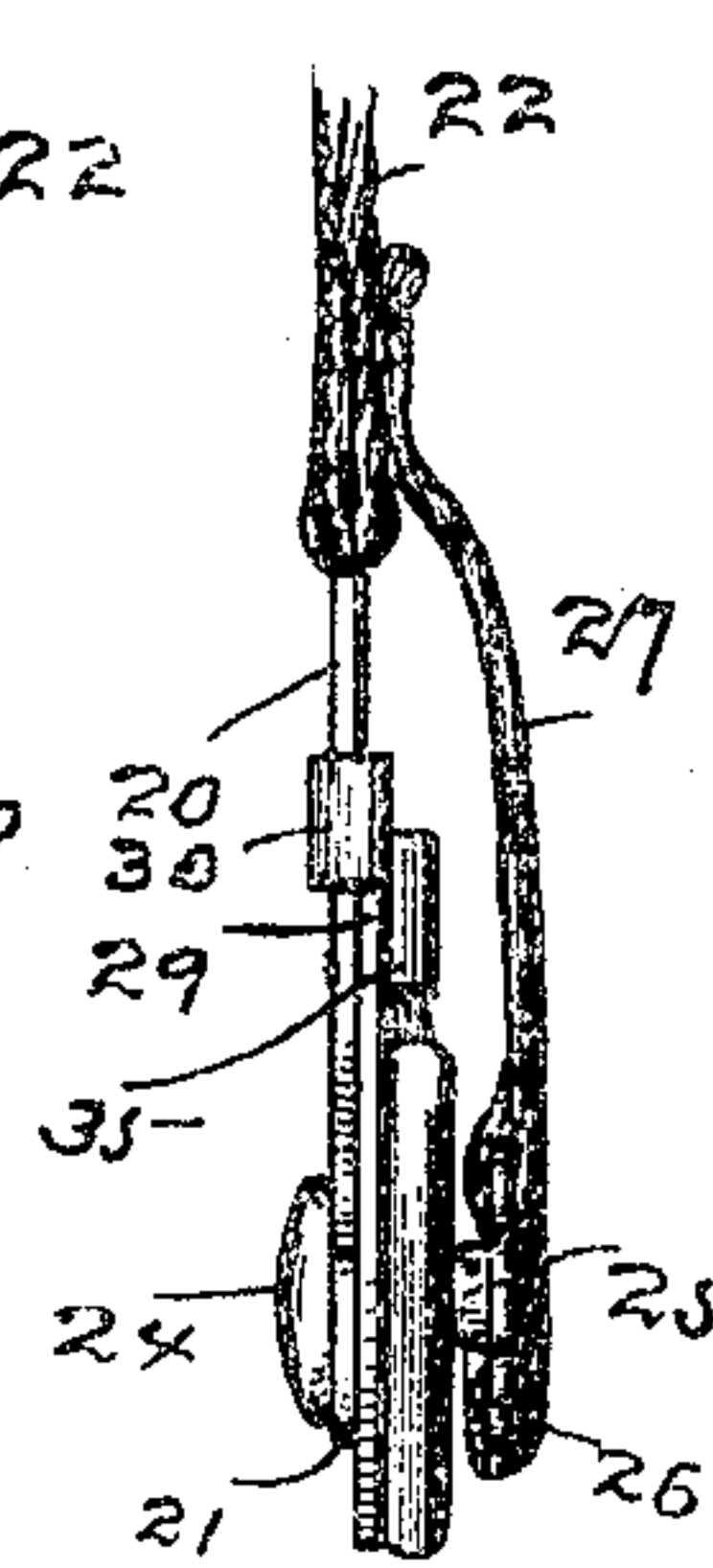


Fig. 11.



Witnesses  
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# UNITED STATES PATENT OFFICE.

MOSES MOODY DOWNER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO  
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## BUTTON AND LOOP CLASP.

SPECIFICATION forming part of Letters Patent No. 794,455, dated July 11, 1905.

Application filed January 30, 1905. Serial No. 243,396.

*To all whom it may concern:*

Be it known that I, MOSES MOODY DOWNER, a citizen of the United States, residing at Bridgeport, county of Fairfield, State of Connecticut, have invented a new and useful Button and Loop Clasp, of which the following is a specification.

My invention relates to the class of garment-supporters in which a fold or ply of a stocking or other garment is placed over a stud and is retained there by means of a loop, which passes under the head of the stud and incloses the shank thereof; and my invention has for its object to provide a device of this character in which the fold or ply of stocking or other garment shall be largely relieved from strain in use and the strain shall be placed upon a much larger portion of the stocking or other garment than with the supporters now in use, so that when used upon the finest silk, lisle, or open-work stockings danger of tearing the stocking shall be practically eliminated, the device, moreover, being equally adapted for use upon heavier grades of stockings and upon other garments and being neat and attractive in appearance, simple and inexpensive to make, easy and certain in use, and practically impossible to get out of repair. This result I accomplish by providing the loop with a slide provided with a holding-pad, which passes over the stud and the fold of stocking, covering it, and is pressed against the portion of the stocking or other garment surrounding the stud by the neck of the loop when the latter is drawn under the head of the stud.

In the accompanying drawings, forming a part of this specification, Figure 1 is a front elevation of my novel supporter as in use, the neck of the loop being nearly drawn to the retaining position; Fig. 2, an edge view corresponding therewith; Fig. 3, a view corresponding with Fig. 1, the stud and the tab by which it is carried being removed; Fig. 4, a view showing the loop and slide lifted, with the tab and stud depending, as in attaching

to a stocking or other garment; Fig. 5, a longitudinal section of the loop, slide, and holding-pad, showing the holding-pad made of rubber; Fig. 6, a similar view showing the holding-pad made of felt; Fig. 7, a similar view showing the holding-pad made of textile material of which either a single ply may be used or a number of thinner plies secured together; Fig. 8, a view corresponding with Fig. 4, showing a slightly variant form in which the holding-pad is retained in a U-shaped ring formed from the metal of the slide instead of by lugs formed from the metal of the slide, as in Figs. 1 to 7, inclusive; Fig. 9, a similar view illustrating another variant form in which the holding-pad is formed from a piece of rubber tubing supported by a wire form; Fig. 10, a view of the form illustrated in Fig. 9, the position of the parts corresponding with Fig. 1; Fig. 11, an edge view of the same form, the position of the parts corresponding with Fig. 2; Fig. 12, a detail sectional view on the line 12 12 in Fig. 8, and Fig. 13 is a view illustrating the manner in which a fold of garment is clamped between the holding-pad and the base.

It will of course be obvious that the views are all on a greatly-enlarged scale.

20 denotes the loop, which may be made of wire or sheet metal, as preferred, is provided at its lower end with a neck 21, and is attached to a piece of textile web 22, which may be elastic or non-elastic, as preferred. Coacting with this loop is a stud 23, comprising a head 24, a shank 25, and a base 26, by means of which it is secured to a tab 27, which is attached to and depends from the lower end of the piece of textile web 22, by which the device is carried.

The essentially novel feature of the invention lies in the holding-pad 28, which is shown as ring-shaped and is carried by a slide 29, itself secured to and movable upon the sides of the loop. In the present instance I have shown the slide as secured to the sides of the loop by means of eyes 30, formed from the metal of the slide, which are



curved about the sides of the loop tightly enough to retain the slide in any position in which it may be placed, but permitting the slide and loop to be easily moved relative to each other, as in engaging or disengaging a stocking or other garment.

The holding-pad may be made of any suitable material, as rubber, felt, or textile material, as in Figs. 5, 6, and 7, or it may be made, as in Figs. 9, 10, and 11, by covering a form 31 with rubber tubing or with other material. (See Figs. 9 and 11, in which a form is shown as covered with suitable material, as 32.)

In Figs. 1 to 7, inclusive, the holding-pad is shown as secured to the slide by means of lugs 33, which are formed from the metal of the slide and curved over the holding-pad to retain it in place.

In Fig. 8 instead of the lugs the holding-pad is shown as secured to the slide by means of a U-shaped ring 34, formed from the metal of the slide and the edges closed into the holding-pad.

In Figs. 9, 10, and 11 the holding-pad, as already stated, consists of a form covered with rubber tubing or other suitable material. This form may consist of a piece of wire bent to suitable shape, its ends being brought contiguous and secured to the slide either by soldering or by striking out lugs 35 from the metal of the slide, as clearly shown in Figs. 9, 10, and 11.

The operation is exceedingly simple and will, it is thought, be readily understood from the description already given. To attach to a stocking or other garment, the operator lifts the loop and slide, as in Fig. 4, passes the stud under the top of the stocking or other garment to be supported, a fold or ply of the garment lying over the stud, then places the holding-pad and loop over the stud, the stud with the fold or ply of garment over it passing through the holding-pad and the loop; and then draws the loop upward, the neck of the loop passing under the head of the stud and inclosing the shank thereof, and thus retaining the fold or ply of stocking upon the stud, but without danger of tearing a fine stocking, for the reason that when the neck of the loop is drawn under the head of the stud it has a binding action and presses the holding-pad down upon the portion of the stocking surrounding the stud—that is to say, the portion of the stocking contiguous to the stud is clamped tightly between the holding-pad and the base 26, this engagement of the holding-pad with the stocking or other garment being a firm frictional engagement and extending over quite a large portion of the stocking, so that the strain upon the portion of the stocking that covers the stud is largely relieved and there

is no special strain upon any small portion of the stocking tending to tear it.

Having thus described my invention, I claim—

1. A garment-supporter comprising a stud, a loop having a neck adapted to pass under the head of the stud, a slide carried by the loop and a holding-pad on the slide having an opening through which the stud may pass, said loop being adapted to be drawn under the head of the stud and have a binding action on the holding-pad.

2. A garment-supporter comprising a stud having a base and a head, a loop having a neck adapted to pass under the head of the stud, a slide carried by the loop and a ring-shaped holding-pad carried by the slide through which the stud may pass, substantially as shown, for the purpose specified.

3. A garment-supporter comprising a stud having a head, a loop having a neck adapted to pass under said head, a slide having eyes engaging the sides of the loop above the neck and a holding-pad carried by the slide and having an opening through which the stud may pass.

4. A garment-supporter comprising a stud having a head, a loop having a neck adapted to pass under said head, a slide carried by the loop, a U-shaped ring carried by the slide and a holding-pad carried by the ring.

5. In a device of the character described the combination with a stud and a loop adapted to engage said stud, of a slide carried by the loop and provided with a holding-pad having an opening through which the stud may pass, a fold of garment surrounding the stud being clamped by the holding-pad when the loop is drawn into engagement with the stud.

6. In a device of the character described the combination with a stud and a loop adapted to engage said stud, of a slide carried by the loop and provided with a ring-shaped holding-pad having an opening through which the stud may pass and which is adapted in use to bear upon the portion of a garment surrounding the stud when the neck of the loop is drawn under the head of the stud.

7. In a device of the character described the combination with a stud having a base and a loop having a neck adapted to pass under the head of the stud, of a slide mounted on the loop and carrying a holding-pad having an opening through which the stud may pass, said slide and loop being movable relative to each other, so that in the engaging position the neck of the loop may be drawn under the head of the stud and will press the holding-pad upon the base so that a fold of garment surrounding the stud will be clamped between the pad and the base.

8. In a garment-supporter, the combina-



tion with a headed stud and a loop having a neck adapted to be drawn under said head, of a slide carried by the loop and a holding-pad carried by the slide and having an opening through which the stud may pass, substantially as shown, for the purpose specified.

9. In a garment-supporter, the combination with a headed stud and a loop having a neck adapted to be drawn under said head, of a slide carried by the loop and a ring-shaped rubber holding-pad carried by the slide, substantially as shown, for the purpose specified.

10. In a garment-supporter, the combination with a headed stud and a loop having a neck adapted to be drawn under said head, of a slide carried by the loop, a U-shaped ring formed integral therewith, and a rubber holding-pad secured by said ring, substantially as shown, for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

M. MOODY DOWNER.

Witnesses:

A. M. WOOSTER,  
S. W. ATHERTON.