

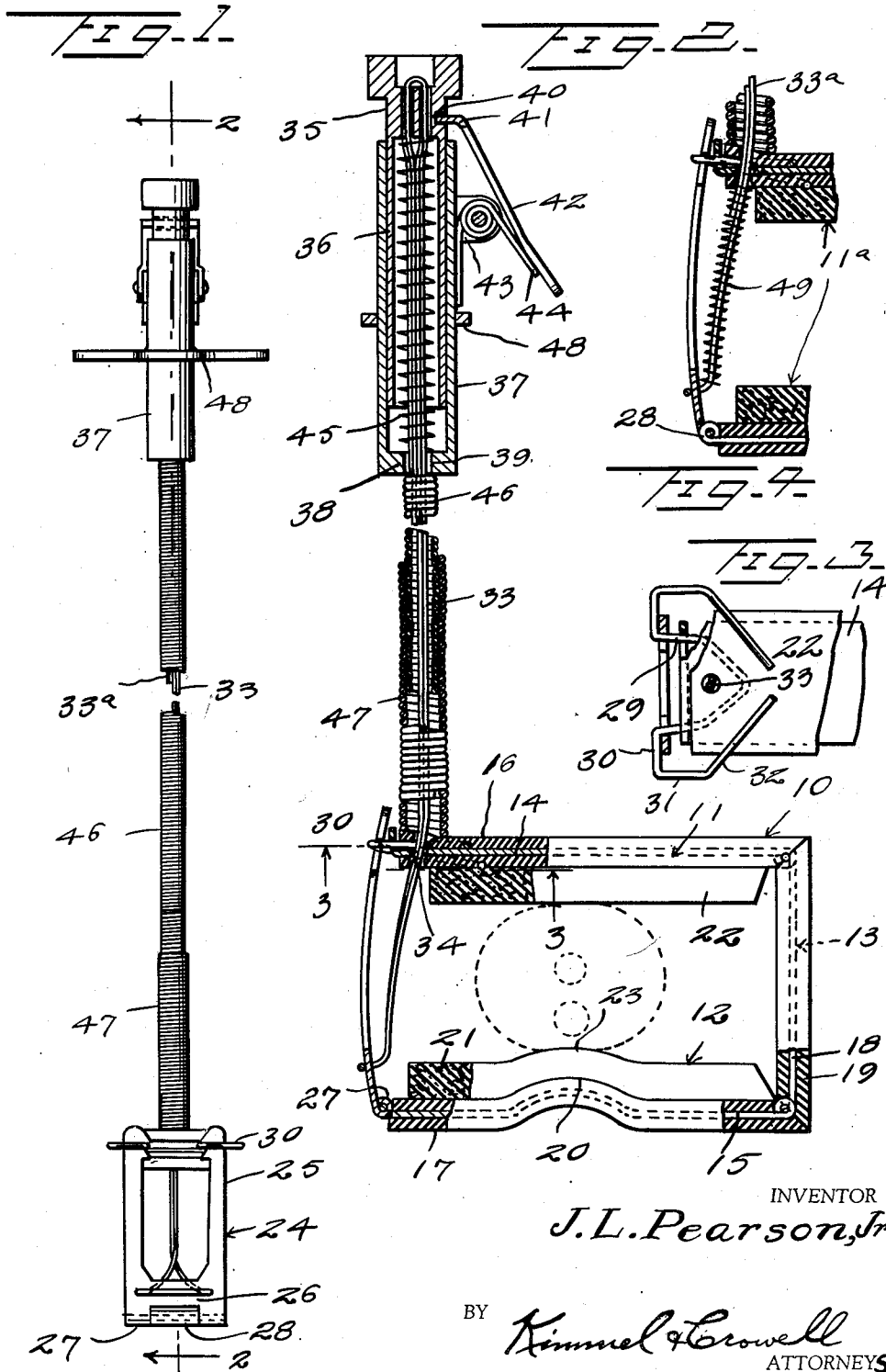
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CLAMP

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CLAMP

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5 Claims. (Cl. 128—346)

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This invention relates to a clamp for use on a male organ.

An object of this invention is to provide a clamping device adapted to be applied to the male organ for releasably closing the urinal duct so as to prevent the involuntary discharge of urine. It is well known that numerous persons have little or no control over the discharge of urine, and while various devices have been produced for collecting the urine as it is discharged, no satisfactory device has been produced which will shut off the discharge under the control of an operator which may be placed in a pocket.

Another object of this invention is to provide a clamp of this kind which is so constructed and arranged that it may be worn in clamping position for a substantial period of time without undue inconvenience.

A further object of this invention is to provide a device of this kind which can be applied or removed at will, and without surgical operation on the organ.

Further objects which will be readily apparent from the disclosure in this specification and accompanying drawings are that the present device may very readily be so arranged by the user as to be controlled from the trousers pocket by simple releasing action; that the action will be instantaneous; that the device may readily be comfortably worn for considerable periods of time; that it can readily be quickly either applied or removed at the will of the wearer; that for those who must constantly wear a device of this kind closed because of "drip," the use is convenient; and that opening and closing action is so quick as to prevent any accidental urination.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawing and specification, and then more particularly pointed out in the appended claims.

In the drawing,

Figure 1 is a detail side elevation of a clamp constructed according to an embodiment of this invention,

Figure 2 is a sectional view taken on the line 2—2 of Figure 1,

Figure 3 is a fragmentary sectional view taken on the line 3—3 of Figure 2,

Figure 4 is a fragmentary sectional view showing a modification of this invention.

Referring to the drawing, the numeral 10 designates generally a clamping means which is formed of a pair of jaw members 11 and 12. The jaw members 11 and 12 are pivotally connected

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together by means of a link 13 so that when the clamp 10 is in applied position the jaw members 11 and 12 will be substantially parallel.

The jaw member 11 is formed of a hinge leaf 14, whereas jaw member 12 is formed of a hinge leaf 15. Hinge leaf 14 is substantially completely enclosed in a rubber covering 16, and hinge leaf 15 is substantially completely enclosed in a rubber covering or casing 17. Connecting link 13 is formed of a hinge leaf 18 pivotally connected to the two leaf members 14 and 15 and encased in a rubber coupling or jacket 19.

Jaw member 12 is formed between the ends thereof with an upwardly offset bulge 20, and a relatively soft rubber cushion member 21 is secured to the inner side of the covering 17 and engages over and conforms to the hump or offset 20.

Jaw member 11 also has secured to the inner side thereof a relatively soft cushion member 22, and the two cushion members 21 and 22 are adapted to engage on opposite sides of the organ, with the hump 23 formed in the inner cushion member 21 engaging under the duct in the organ so as to compress and close this duct when the device is in clamping position.

The jaw member 12 has secured to the forward end thereof a keeper generally designated as 24, which is formed of a pair of spaced apart parallel toothed members 25, connected together at their lower end by a connecting member 26 which includes a hinged barrel 27 for pivotal connection with a hinged barrel 28 formed on the forward end of the leaf member 15.

A resilient V-shaped latching member 29 is carried by the jaw member 11, having a portion thereof interposed between the upper side of the hinge leaf 14 and the covering or jacket 16. The latching member 29 includes lateral extensions 30 terminating in rearward extensions 31 and inwardly convergent extensions 32 which are adapted to underlie the covering or jacket 16. The sides of the latching member 29 are adapted to engage with selected teeth of the bars 25. The latching member 29 provides a means whereby a relatively light pressure may be constantly maintained on the organ to hold the clamping members thereon and to lightly close the duct in order to prevent constant discharge.

In order to provide a means whereby the clamping members 11 and 12 may be moved to clamping position from a remote point, I have provided a flexible wire operator 33 which is connected at one end to the keeper 24 and extends upwardly through an opening 34 formed in the forward end

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of the jaw member 11. The outer or upper end of the wire 33 is secured to a cap 35, having a cylindrical slide member 36 extending therefrom and slidable in the cylinder 37.

The cylinder 37 includes an inner head 38, having an opening 39 through which the wire 33 slidably engages. The cap or head 35 is formed with a lock receiving slot 40 within which a spring-pressed locking member 41 carried by a lever 42 is adapted to releasably engage. The lever 42 is rockably carried by a pair of ears 43 which extend from the cylinder 37, and a spring 44 constantly urges the lever 42 to locked position.

A spring 45 is disposed within the cylindrical slide 36 bearing at its inner end against the head 38 of cylinder 37, and bearing at its outer end against head or cap 35. The function of spring 45 is to pull jaw member 12 upwardly by means of wire operator 33 to clamping position when locking member 41 is disengaged from the slot 40.

In order to provide a means whereby jaw member 11 may be held against movement so that jaw member 12 may be rocked upwardly, I have provided a flexible sleeve 46 which engages about the wire 33 and bears at its outer end against the head 38. An extension sleeve 47 in the form of a coiled wire sleeve is threaded onto the inner or lower end of sleeve 46 and bears against the upper side of jaw member 11. Flexible operator 33 is doubled back on itself as at 33a so as to provide four wire strands extending through cylinder 37 and into the outer end of sleeve 46. In this manner sleeve 46 is made less flexible at its outer end so that there will not be any sharp bend in sleeve 46 or wire 33 adjacent the cylinder. Cylinder 37 has a washer or flange 48 fixed thereto between the ends thereof so that head or cap 35 may be readily pushed inwardly to jaw releasing position by inserting the cylinder 37 between a pair of fingers and engaging these fingers with the washer or flange 48 with a third finger bearing against cap or head 35.

The structure shown in Figure 4 is identical with that shown in Figures 1 to 3 inclusive, with the following exception; a spring 49 is disposed about wire 33a and bears at its upper end against jaw 11a so as to constantly urge the latter upwardly to released position.

The device hereinbefore described is applied to the organ which engages between the jaws 11 and 12, and normally these jaws will be in a released position, as shown in Figure 2. When it is desired to close the duct of the organ, the lever 42 may be rocked to withdraw locking member 41 from slot 40. At this time spring 45 will move slide 36 and head 35 outwardly so that wire operator 33 will draw jaw member 12 upwardly to a clamping position.

The hinged leaf 14 is made of material which can be bent to accommodate or provide a means of making a fit to the wearer.

I do not mean to confine myself to the exact details of construction herein disclosed, but claim all variations falling within the purview of the appended claims.

What I claim is:

1. A clamp comprising a pair of clamping members, one of said members having an aperture therein, a link pivotally connecting said

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members together at one end thereof, a flexible operating wire connected at one end to one of said members and passing through said aperture, a flexible sleeve about said operator and bearing at one end against the other of said clamping members, a spring-pressed locking member connected to the other end of said operator, and a spring connected to said wire operable upon release of said locking member effecting movement of said wire and hence said clamping members to clamping position.

2. A clamp comprising a pair of clamping members, one of said members having an aperture therein, a link pivotally connecting said members together at one end thereof, a flexible operating wire connected at one end to one of said members and passing through said aperture, a flexible sleeve about said operator and bearing at one end against the other of said clamping members, a spring-pressed locking member carried by the other end of said operator, and spring means connected to said wire operable upon release of said locking member normally biasing said wire and hence said clamping members to clamping position, and releasable latch means carried by said clamping members and engageable by said wire for securing the latter in released position.

3. A clamp comprising a pair of pivotally connected clamping members, an elongated flexible spring-pressed operating wire connected to one of said members normally urging said members to clamping position, a releasable locking member remote from said members and connected to said wire for holding said wire in clamp released position, and releasable latch means carried by said members for holding the latter in released position.

4. A clamp comprising a pair of pivotally connected clamping members, an elongated flexible spring-pressed operating wire normally urging said members to clamping position, a releasable latch means engageable by said wire carried by said clamping members for holding said members in released position, said latch means comprising a toothed keeper pivotally carried by one of said members and extending in the direction of the other member, and a resilient latch member carried by the other clamping member and engaging said toothed keeper.

5. A clamp comprising a pair of pivotally connected clamping members, an elongated flexible operating wire connected to one of said members, a releasable locking member remote from said members and connected to said wire for holding said members in released position, a spring latch for holding said operator in released position, and a spring constantly urging said wire and hence said members to clamping position.

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