

[54] **ANATOMICAL DEVICE**

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[51] Int. Cl. **A61f 5/00**

[58] Field of Search..... 128/79, 325, 346

[56] **References Cited**

UNITED STATES PATENTS

594,815	11/1897	Taggart.....	128/79
2,581,114	1/1952	Larson.....	128/79
2,818,855	1/1958	Miller.....	128/79

Primary Examiner—Lawrence W. Trapp

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[57] **ABSTRACT**

An anatomical device adapted for attachment to a

penis has a rigid frame in the form of a U-shaped member having a substantially planar back portion and converging leg portions extending codirectionally from the back portion. A longitudinally extending projection is connected to the U-shaped member and arranged parallel with the back portion and extending codirectionally with respect to the leg portions for applying local pressure to the dorsal vein of the penis. The U-shaped member may have two segments, one segment having walls defining a longitudinally extending cavity and the other segment having a longitudinally extending member slidably arranged in the cavity to permit the device to be adjusted for easy application or removal. The cavity and longitudinally extending member substantially form the back portion of the U-shaped member. One of the segments is provided with a catch member extending into the cavity, and the other segment is provided with a plurality of ratchet teeth arranged to engage the catch member. The pressure exerted on the leg portions by an enlarged penis causes the ratchet teeth and catch to lock at a predetermined position relative to one another.

17 Claims, 9 Drawing Figures

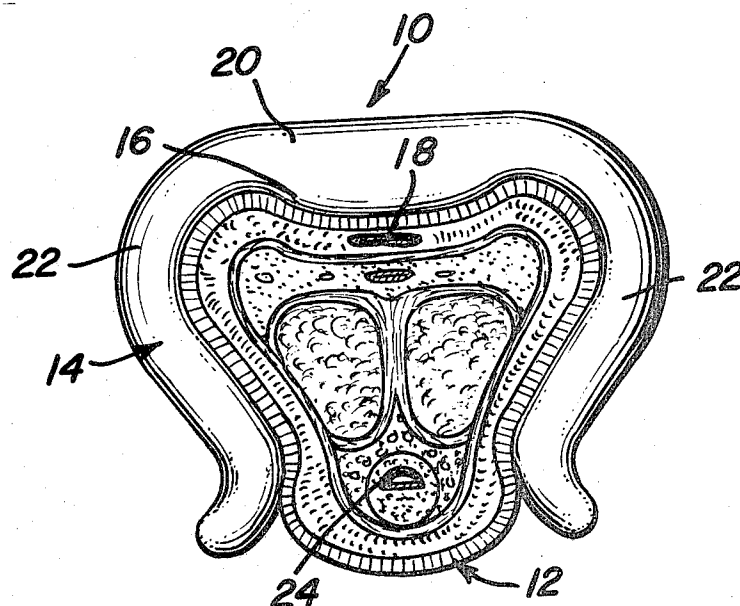


FIG. 1

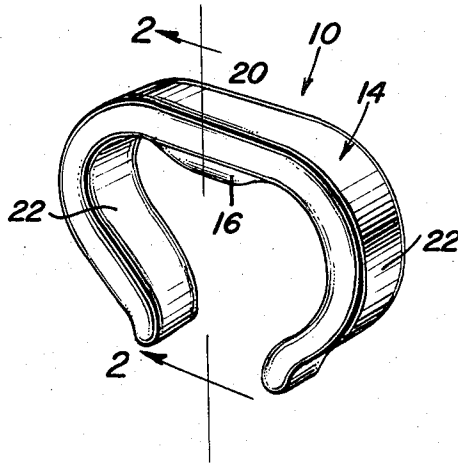


FIG. 2

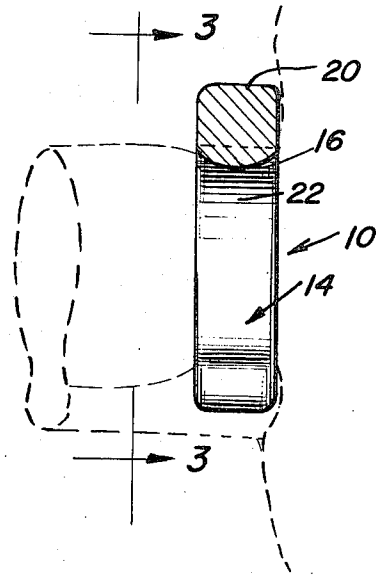


FIG. 3

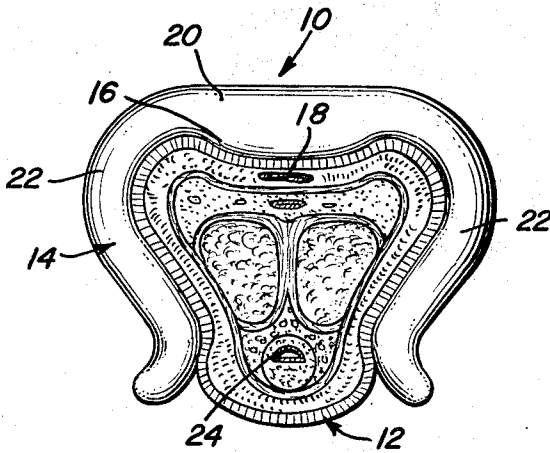


FIG. 4

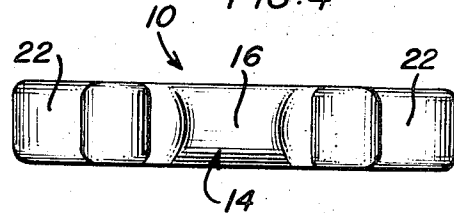
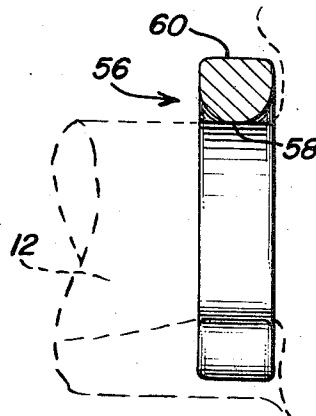
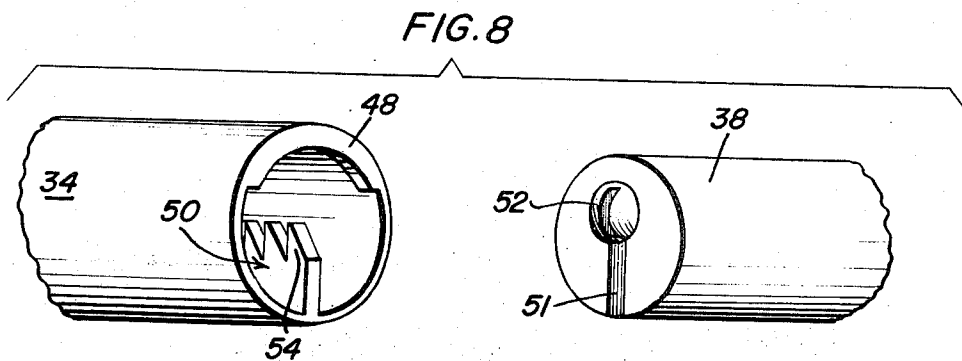
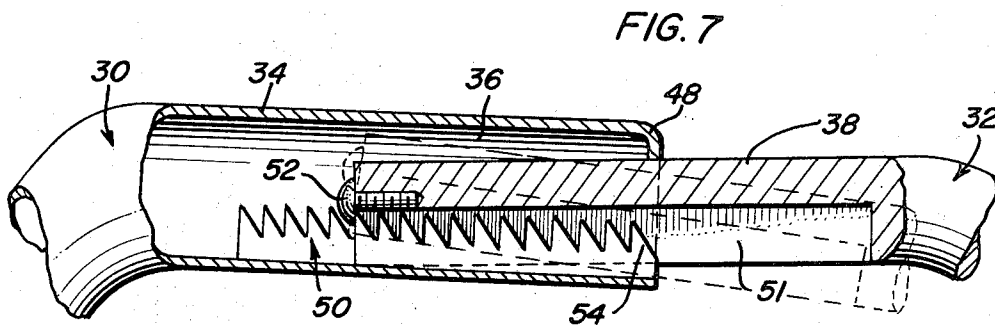
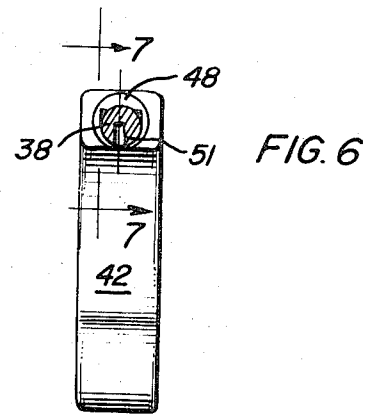
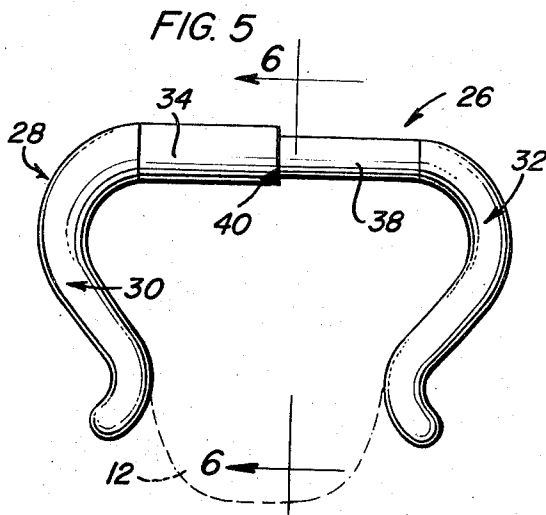


FIG. 9





ANATOMICAL DEVICE

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates to an anatomical device for attachment to a penis for applying local pressure to the dorsal vein of the penis and restricting the flow of blood out of the penis.

2. Description of the Prior Art

It has long been known that the restriction of the superficial dorsal vein of the male reproductive organ, or penis, to maintain an erection has therapeutic value in physically and psychologically impotent males. This procedure will also cause the penis of a normal male to become much larger when erect than is usual. However, restriction of the urethra is to be avoided if at all possible.

Numerous devices have been proposed for applying the local pressure to the superficial dorsal vein. For example, U. S. Pat. Nos. 594,815; 2,581,114; and 2,818,855 show such devices which completely surround the organ, an allowance being made to keep local pressure off of the urethra. These constructions, however, have been found unsatisfactory because they may dig into or pinch the organ, or they will not fit comfortably into the pubic area of the user. In addition, the endless nature of these known devices results in some local pressure being applied to the area of the urethra. Another known proposal is set out in, for example, U. S. Pat. No. 3,511,230. This device is a bent piece of wire which employs force of the user's legs to apply the local pressure to the dorsal vein. This pulling down on the organ, however, results in a loss of some of the effective pressure upon the dorsal vein.

SUMMARY OF THE INVENTION

It is an object of the present invention to provide an improved anatomical device of the type referred to above. It is another object of the present invention to provide such an anatomical device which is suitable not only for those whose reproductive organ has become inactive or incapacitated, but for normal, healthy, and virile people who desire additional pleasure during copulation. It is yet another object of the present invention to provide such an anatomical device which is simple, safe, and sanitary to use.

These and other objects are accomplished according to the present invention by providing an anatomical device having a rigid frame adapted for attachment to a penis, and means provided on the rigid frame for applying local pressure to the dorsal vein of the penis and restricting the flow of blood out of the penis.

In an anatomical device according to the present invention, the rigid frame is in the form of a U-shaped member having a substantially planar back portion and converging leg portions extending codirectionally from the back portion. These leg portions are preferably dimensioned to terminate at a point on the penis that is short of the area of the urethra of the penis so as to avoid applying a local pressure and restricting the urethra.

In a first embodiment of an anatomical device according to the present invention, the pressure applying means is a longitudinally extending projection connected to and arranged parallel with the back portion,

and extending codirectionally with respect to the leg portions.

In an alternative embodiment of the present invention, the U-shaped member has two segments. One of the segments has walls defining a longitudinally extending cavity, and the other segment has a longitudinally extending member slidably arranged in the cavity to permit the device to be adjusted to fit a particular penis. The cavity and longitudinally extending member form the substantially planar back portion of the U-shaped member.

The one segment of this alternative embodiment is provided with a catch member extending into the cavity, and the other segment is provided with a plurality of ratchet teeth arranged to engage the catch member. The pressure exerted on the leg portions by an enlarged penis causes the ratchet teeth and catch to lock in a predetermined position with respect to one another.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view showing a first embodiment of an anatomical device according to the present invention.

FIG. 2 is a sectional view taken generally along the line 2—2 of FIG. 1, and showing the anatomical device arranged on a penis.

FIG. 3 is a sectional view taken generally along the line 3—3 of FIG. 2.

FIG. 4 is a bottom plan view showing the anatomical device of FIGS. 1 to 3.

FIG. 5 is a side elevational view showing a second embodiment of an anatomical device according to the present invention arranged on a penis.

FIG. 6 is a sectional view taken generally along line 6—6 of FIG. 5.

FIG. 7 is a fragmentary sectional view, drawn to a larger scale than FIGS. 5 and 6, and taken generally along the line 7—7 of FIG. 6.

FIG. 8 is a fragmentary exploded perspective view showing the latch arrangement of the embodiment of FIGS. 5—7.

FIG. 9 is a sectional view similar to FIGS. 2 and 6, but showing a third embodiment of an anatomical device according to the present invention arranged on a penis.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring first to the embodiment shown in FIGS. 1 to 4 of the drawings, an anatomical device 10 according to the present invention is adapted for attachment to a penis 12. Device 10 has a rigid U-shaped frame member 14 adapted for gripping engagement to penis 12, and a longitudinally extending projection 16 provided thereon for applying local pressure to the superficial dorsal vein 18 of penis 12 and restricting the flow of blood out of penis 12.

U-shaped member 14 has a substantially planar back portion 20 and converging leg portions 22 extending codirectionally from back portion 20. Leg portion 22 may include an angle with respect to back portion 20

of about 55°. Leg portions 22 are dimensioned to terminate at a point on penis 12 that is short of the area of the urethra 24 of penis 12 so as to avoid applying a local pressure and restricting urethra 24. Longitudinally extending projection 16 is connected to and arranged parallel with back portion 20. It extends codirectionally with respect to leg portions 22.

Referring now to FIGS. 5 to 8 of the drawings, a second embodiment of an anatomical device according to the present invention is illustrated. Anatomical device 26 has a rigid, U-shaped frame member 28. Frame member 28 is made up of two segments 30, 32. Segment 30 has walls 34 defining a longitudinally extending cavity 36. Segment 32 has a longitudinally extending member 38 slidably arranged in cavity 36 for permitting device 26 to be adjusted to fit a particular penis 12. The portions formed by cavity 36 and member 38 form a substantially planar back portion 40. Converging leg portions 42 extend codirectionally away from back portion 40.

Segment 30 is provided with a fulcrum member 48 extending into cavity 36. Segment 30 is provided with a plurality of ratchet teeth 50 enclosed in cavity 36 and arranged to slide in a groove 51 and selectively engage with a catch member 52 in the form of a screw head. The pressure exerted on leg portions 42 by an enlarged penis 12 causes ratchet teeth 50 and catch member 52 to lock in a predetermined position with respect to one another due to pivoting of member 38 about member 48. Release of catch member 52 from a particular one of ratchet teeth 50 is accomplished by pushing leg portions 42 toward one another. This tilts segments 30, 32 sufficiently to enable a particular one of ratchet teeth 50 to clear catch member 52. Member 48 prevents member 38 from being withdrawn from cavity 36 by preventing member 51 from being pivoted out of engagement with an end tooth 54. Unthreading of the screw permits removal of member 38 from cavity 36.

The circular cross section of walls 34 and member 38 eliminates the need for a projection such as 16 and eliminates any problems of centering or alignment over the dorsal vein which may be encountered with such a projection.

Alternatively, catch member 52 and ratchet teeth 50 could be eliminated, and a layer of rubber (not shown) bonded to the top surface of member 38 could be substituted therefor. However, the ratchet teeth 50 are preferably, due to the more positive engagement with catch 48 and the resulting reduced tendency of slippage.

The embodiment illustrated in FIGS. 5 to 8 of the drawings may be constructed from a suitable material, such as die cast steel, hardwood, potmetal, and aluminum. Various synthetic materials may also be used. It is desirable to place a rubber, particularly latex, or plastic covering over an entire device 10, 26. The angle of leg portions 42 with respect to back portion 40 is preferably, as was the case of the embodiment of FIGS. 1 to 4, approximately 55°. In both of the disclosed embodiments, the width of the U-shaped members 14, 28 should preferably be at least 3/8 inch. This is to prevent the devices 10, 26 from digging into the organ, and to insure sufficient tension on penis 12 by the leg portions 22, 42.

FIG. 9 of the drawings shows a third embodiment of the present invention designated 56. This device is similar in design to device 26 except that it is non-

adjustable and constructed in one-piece as device 10. However, in place of a projection 16, device 56 has a rounded surface 58 of a back portion 60, in the manner of device 26.

The use of a device 10, 26, 56 according to the present invention is simple and safe. Devices 10 and 56 are arranged at the base of the penis adjacent the pubic area, while the penis is in a flaccid state, and as the penis enlarges during an erection is clamped firmly in place thereby. All devices fit into the pubic area without significant reduction of the effective length of an erect penis 12. Device 26 may be arranged on an erect penis and adjusted to assure a firm fit. Further, device 26 may be set to a smaller position if the user is weak or tired. In addition, the pressure on a penis 12 may be increased after insertion by setting device 26 to a smaller position, thereby expediting insertion. The materials from the devices 10, 26 are constructed are easily cleaned, insuring good sanitary conditions. Devices 10 and 45 may be constructed in a known manner from a suitable synthetic material, such as one sold under the tradename "Bakelite." Devices 10, 26, and 56 may have a flesh coloring.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

What is claimed as new is as follows:

1. An anatomical device adapted for attachment to a penis, comprising rigid frame means for attachment to a penis, and the rigid frame means being in the form of a U-shaped member provided with a portion arrangeable for applying local pressure to the dorsal vein of the penis and restricting the flow of blood out of the penis.

2. An anatomical device adapted for attachment to a penis, comprising rigid frame means for attachment to a penis, and means provided on said rigid frame means for applying local pressure to the dorsal vein of the penis and restricting the flow of blood out of the penis, said rigid frame means being in the form of a U-shaped member having a substantially planar back portion and converging leg portions extending codirectionally from said back portion.

3. A structure as defined in claim 2, wherein said leg portions are dimensioned to terminate at a point on the penis that is short of the area of the urethra of the penis so as to avoid applying a local pressure and restricting the urethra.

4. A structure as defined in claim 3, wherein the pressure applying means is a longitudinally extending projection connected to said U-shaped member and arranged parallel with respect to said back portion, and extending codirectionally with respect to said leg portions.

5. A structure as defined in claim 4, wherein said back portion is a portion of two segments, one segment having walls defining a longitudinally extending cavity and the other segment having a longitudinally extending member slidably arranged in the cavity to permit the device to be easily adjusted and put on an erect penis and to fit a particular penis.

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6. A structure as defined in claim 5, wherein said one segment is provided with a catch member extending into said cavity, and said other segment is provided with a plurality of ratchet teeth arranged to engage said catch member, the pressure exerted on said leg portions by an enlarged penis causing the ratchet teeth and catch to lock in a predetermined position with respect to one another.

7. A structure as defined in claim 2, wherein said back portion is a portion of two segments, one segment having walls defining a longitudinally extending cavity and the other segment having a longitudinally extending member slidably arranged in the cavity to permit the device to be adjusted to fit a particular penis.

8. A structure as defined in claim 7, wherein said one segment is provided with a catch member extending into said cavity, and said other segment is provided with a plurality of ratchet teeth arranged to engage said catch member, the pressure exerted on said leg portions by an enlarged penis causing the ratchet teeth and catch to lock in a predetermined position with respect to one another.

9. A structure as defined in claim 2, wherein the pressure applying means is a longitudinally extending projection connected to said U-shaped member and arranged parallel with respect to said back portion, and extending codirectionally with respect to said leg portions.

10. A structure as defined in claim 2, wherein the back portion has an arcuate surface arranged for pressing against the dorsal vein of a penis.

11. A structure as defined in claim 2, wherein the pressure applying means is a longitudinally extending projection connected to said rigid frame means.

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12. An anatomical device adapted for attachment to a penis, comprising rigid frame means in the form of a U-shaped member for attachment to a penis, and having two segments, one segment having walls defining a longitudinally extending cavity and the other segment having a longitudinally extending member slidably arranged in the cavity for permitting the device to be adjusted to fit a particular penis, said cavity and longitudinally extending member forming a substantially planar back portion of the U-shaped member, which further has converging leg portions extending codirectionally from said back portion.

13. A structure as defined in claim 12, wherein said one segment is provided with a catch member extending into said cavity, and said other segment is provided with a plurality of ratchet teeth arranged to engage said catch member, the pressure exerted on said leg portions by an enlarged penis causing the ratchet teeth and catch to lock in a predetermined position with respect to one another.

14. A structure as defined in claim 13, wherein the back portion has an arcuate surface arranged for pressing against the dorsal vein of a penis.

15. A structure as defined in claim 12, wherein the back portion has an arcuate surface arranged for pressing against the dorsal vein of a penis.

16. A structure as defined in claim 1, wherein the pressure applying portion is a planar back portion of the U-shaped member.

17. A structure as defined in claim 1, wherein the pressure applying portion is a longitudinally extending projection provided on a back portion of the U-shaped member.

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