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TUBULAR BANDAGE APPLICATOR AND CUT-OFF

Filed Aug. 9, 1965

FIG. 4

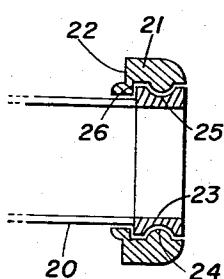


FIG. 3

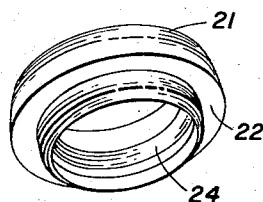


FIG. 1

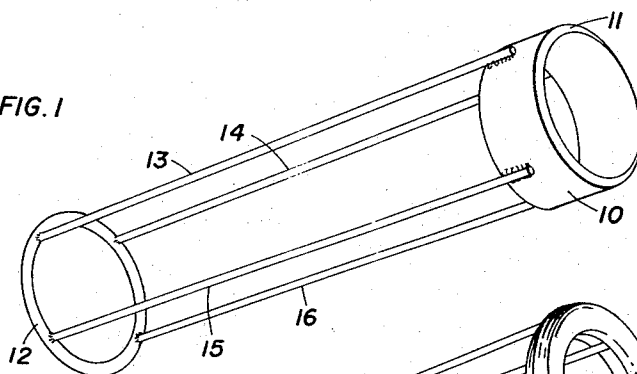


FIG. 2

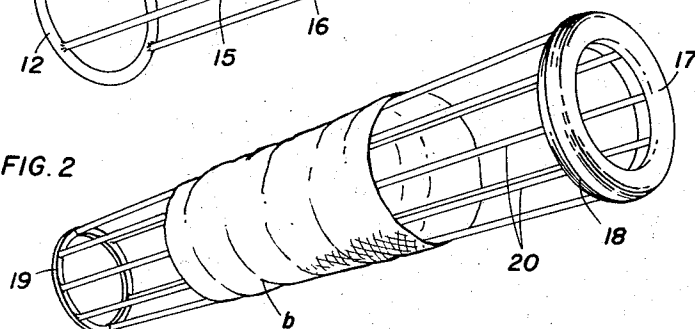


FIG. 5

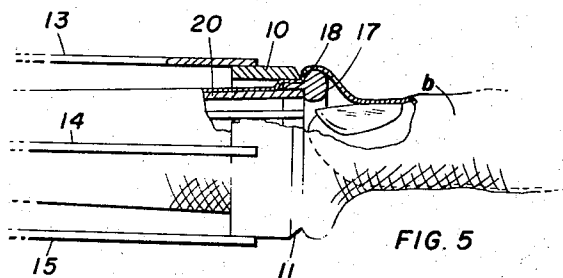
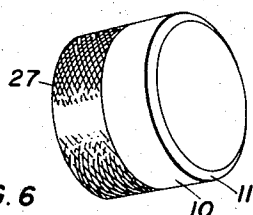


FIG. 6



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ABSTRACT OF THE DISCLOSURE

This specification discloses a tubular bandage applicator and cut-off comprising: an applicator having a metallic ring formed with an inwardly facing shoulder and a tubular member at one end and a cutting member dimensioned to fit over the applicator and having at one end, a ring-like cutting edge cooperating with said shoulder. An adaptor is also provided which is used with a conventional applicator to adapt it for use with the cutting member aforesaid.

This invention relates to an applicator for use with tubular bandages which permits easy application of such bandages to specific parts of the body.

There are available at present various types of tubular bandage applicators which only permit the application of the bandage but do not include any device for cutting the bandage once it has been applied. The bandage therefore must be cut by means of a sharp knife or scissors used in conjunction with such applicators, a great disadvantage in this being that the bandage cannot be cut in one swift action.

Furthermore, it may be seen that cutting tubular bandages by such a method is extremely awkward and usually results in the bandage being cut untidily, notwithstanding the time taken whilst the patient may be in an extreme state of anxiety and pain.

Accordingly, it is a general objective of the invention to provide not only the means of applying tubular bandages to various specific parts of the body but also the means to cut the bandage once it has been applied by one swift action.

A further embodiment of this invention is a Teflon or like synthetic plastic ring attachment which may be utilized with present types of ordinary tubular bandage applicators thereby making the applicator usable in conjunction with the cutter member of the invention.

Other and more particular advantages will become apparent from the following description of a preferred embodiment with reference to the following drawings in which like references refer to like parts thereof throughout the various views and diagrams in which:

FIGURE 1 is a perspective illustration of the cutter members;

FIGURE 2 is a perspective illustration of the applicator;

FIGURE 3 is a perspective illustration of the plastic ring attachment;

FIGURE 4 is a section view through a known type of tubular bandage applicator showing the plastic ring attachment fitted;

FIGURE 5 is a side elevation showing the cutter used in conjunction with the applicator partially cut-away; and

FIGURE 6 is a perspective of a further form of cutter member.

It will be seen that the invention consists of two main parts, the cutter and the improved applicator. As a further embodiment of the invention a plastic ring attachment for a standard applicator permitting use of

the cutter. FIGURE 1 shows the cutter which consists of a collar 10 made from steel on which is ground the cutting edge 11. This collar is attached to a ring 12 by means of four steel rods 13, 14, 15 and 16 soldered between them at equidistant intervals about the circumference of each.

In FIGURE 2 it will be seen that the improved applicator consists of a brass ring 17 incorporating a shoulder 18 against which the cutting edge 11 acts. This ring 17 is attached to a steel ring 19 by eight steel rods 19a soldered between them provided with a tapered sleeve 20 for guiding the cutter 11. These eight rods thus form a cylindrical-shaped framework over which the tubular bandage *b* may be placed ready for dispensing.

Collar 10 is preferably dimensioned to fit readily over ring 19 and to fit loosely over tapered sleeve 20 but to be of reduced diameter relative to ring 17 whereby edge 11 will abut against shoulder 18 for cutting of bandage *b* with a rotary motion, as shown in FIGURE 5.

For use in association with the standard applicator the Teflon ring attachment 21 as shown in FIGURE 3 incorporates a shoulder 22 against which the cutting edge 11 of the cutter acts. This Teflon ring attachment 21 is shaped to be fitted over the end of the present type of standard applicator in order that the cutter of FIGURE 1 may be used in conjunction therewith. The Teflon ring attachment 21 is held into place on the ordinary type applicator 23 as may be seen in FIGURE 4, by an internal rim 24 which fits into the existing groove 25 of the standard applicator. An internal shoulder 26 formed on the ring attachment prevents the ring attachment from moving when the center is used against it.

In operation, the user of the applicator simply mounts the tubular bandage *b* onto the applicator frame. The bandage is then dispensed over the brass ring 17 until enough bandage has been applied to the patient. In order to cut the bandage swiftly and efficiently, the cutter is grasped and placed over the framework of the applicator until the cutting edge 11 comes into contact with the shoulder 18 of the brass ring 17 on the applicator, as shown in FIGURE 5. A firm twist in a clockwise and anti-clockwise direction of the cutter against the ring 17 results in the circumference of the bandage being cut by a guillotine action.

If the cutter is to be utilized with a standard type applicator the Teflon ring attachment must first be fitted over the end of the standard applicator by engaging the internal rim 24 with the groove 25 on the standard applicator in the manner illustrated in FIGURE 4. The standard type applicator and the cutter may then be used in a similar manner as described above.

FIGURE 6 shows a modified form of cutter which may be used in place of that shown in FIGURE 1. It consists essentially in a somewhat longer collar 10 having an edge 11 and a knurled portion 27 for gripping by the doctor or nurse in place of rods 13-16 and ring 12.

The foregoing is a description of a preferred embodiment of the invention by way of example only and the invention is not limited to the specific features shown but contemplates all such variations as come within the spirit and scope of the invention as defined by the following claims.

What I claim is:

1. A medical instrument for the application of tubular bandages and comprising:

an applicator including a member having a tapered diameter and a shoulder cylindrical cutting member dimensioned to fit over at least part of said applicator member;

cutting edge formed at one end of said cutting member to engage said shoulder on said applicator mem-

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ber and of reduced diameter in relation to said chamfered diameter on said applicator member; a synthetic plastic ring attachment for said applicator; retaining means formed in said ring to fit one end of a said applicator;
 an internal shoulder formed in said ring to engage said one end of said applicator;
 an external shoulder formed on said ring to receive said cutting edge;
 a tapered sleeve formed on said ring attachment to guide said cutting edge on said cutting member;
 and an enlarged chamfered diameter formed on said ring to dispense the tubular bandage.

2. A combination applicator for tubular bandages and a cut-off device therefor comprising: an applicator consisting of a first ring, a second ring spaced from said first ring, and a plurality of rigid rods extending between and connecting said rings; said second ring having an axially inwardly facing shoulder; and a cutting member dimensional to slidably fit over said applicator and having a cylindrical metallic ring-like part at one end formed with a cutting edge in confronting relation to said shoulder and cooperating therewith to sever a bandage between said shoulder and cutting edge.

3. The applicator and cutting device of claim 2 in which the cutting member includes a ring spaced from

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said cutting part; and a plurality of rigid rods connecting said last mentioned ring to said cutting part.

4. The applicator and cutting device of claim 2 together with an axially inwardly extending tapered sleeve carried by said second ring.

5. For use with a conventional bandage applicator comprising spaced rings connected by a plurality of rigid rods; a plastic attachment fitting over one of said rings; means for holding said attachment in position relative to the ring over which it is fitted; an axially inwardly facing shoulder on said attachment and a cutting member dimensioned to fit over said applicator and including a cylindrical ring-like metallic part having a cutting edge in confronting relation to said shoulder and cooperating therewith to sever a bandage between said shoulder and cutting edge.

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