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BOWSTRING KIT PACKAGE

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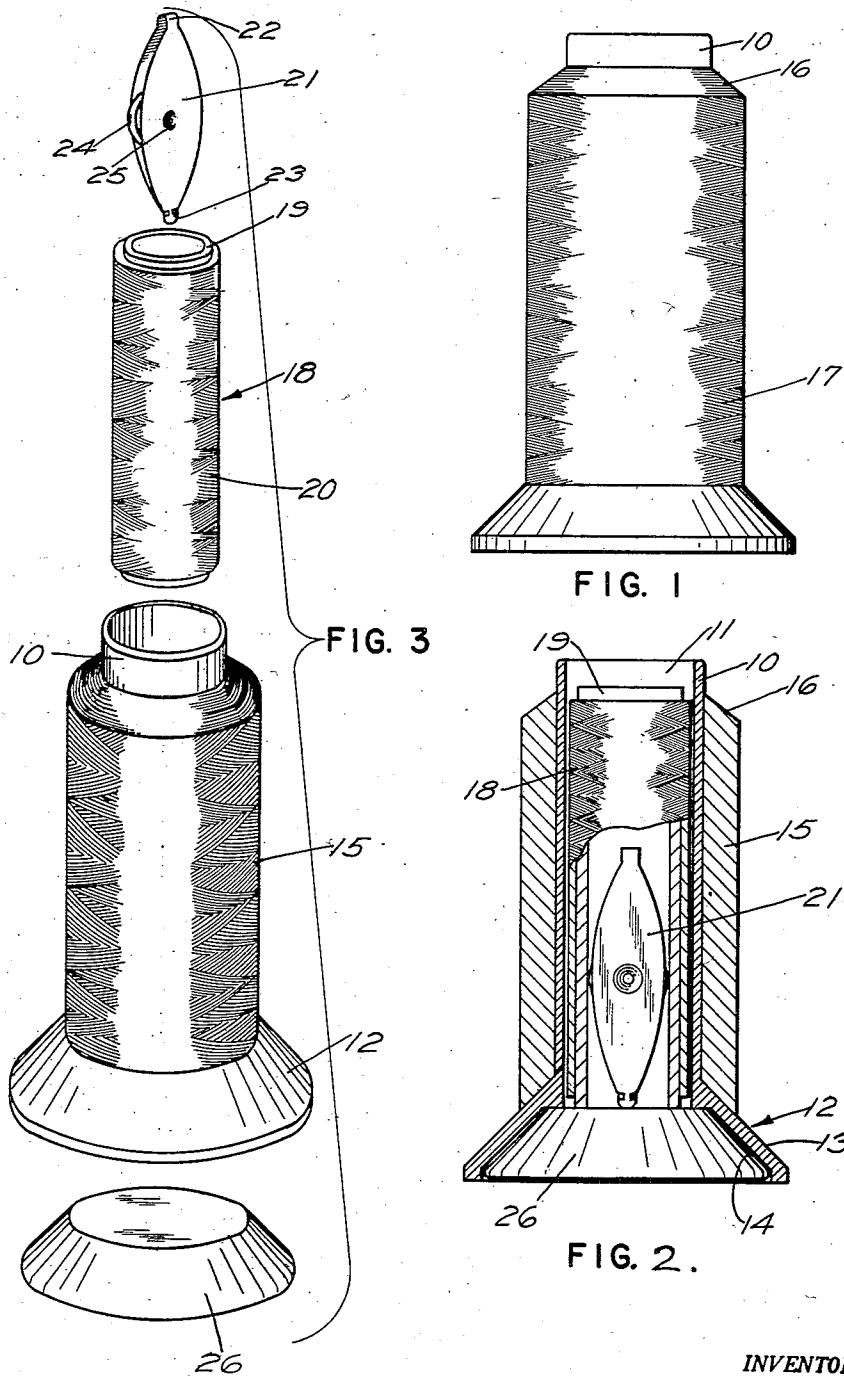


FIG. 1

FIG. 2.

FIG. 3

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BOWSTRING KIT PACKAGE

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1 Claim. (Cl. 206-47)

This invention relates to the field of archery and more particularly to the string for the bow and the formation of such a string.

In archery the bow requires a heavily waxed string made up of several strands which are served with a winding of waxed smaller strand material. This string either originally must be formed from these several strands; or if it is desired to replace a bowstring, the string must be made up of several strands of material and served and waxed in a known manner. Several parts are thus utilized for the formation of the required bowstring.

One of the objects of this invention is to provide in a single unitary package an assembly of all of the parts which may be used for the formation of a bowstring.

Another object of this invention is to so assemble the different parts that they will occupy a compact space.

Another object of this invention is to provide an assembly of parts all housed within a package of one of the main components of the assembly.

Another object of the invention is to so house the different parts that each one may be readily accessible independent of the other parts.

Another object of the invention is to so form the parts that they co-operate with each other in forming a closed package for the whole.

With these and other objects in view, the invention consists of certain novel features of construction as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings:

Figure 1 is an elevation of the package complete;

Figure 2 is a central sectional view through the package;

Figure 3 is an exploded view showing the several parts of the package as separated one from the other.

In proceeding with this invention, I provide a tubular body with a conical head which is recessed inwardly from its end. On the outer surface of this tubular body, I wind the strand material for the formation of the bowstring, while within this tubular body I provide a space for a headless core upon which is wound the serving strand material. This core is hollow so as to house a shuttle upon which this serving material may be wound for convenient operation, while in the conical end, I provide a cake of wax which is so shaped as to closely fit the conical end and provide a closure for the tubular core of the body and also the headless core upon which the serving strand is wound, thus providing a closure or bottom for the outer tubular body and also the inner tubular core in which the shuttle is housed.

With reference to the drawings, 10 designates a core of some rigid material such as fiber which has a hollow center 11 and is provided with an integral head 12 having a frustro-conical outer surface 13 and a recess 14 opening from the large end thereof inwardly of the head.

Upon the outer surface of this tubular body, I wind a strand material 15 which is of such weight that several plies may act as the string for the bow of the

archery device. This strand is suitably wound so as to fit the outer surface 13 of a portion of the conical head 12 and to also provide a conical end 16 of the winding so that it may be easily drawn over this end from the package. As seen, the strand is wound with a so-called universal wind 17 which enables the package to maintain its form at 16 without the necessity of there being a head at this end.

The hollow portion 11 houses a separate package 18 of serving strand material. This material is wound on a headless hollow core 19 also in a universal manner as shown at 20 which requires no heads to maintain the package in the cylindrical form desired. The outer overall dimension of this package 18 is of a size to fit within the hollow core 11 so that the same may be easily slid into or from this hollow core 11.

Within this hollow headless core 19 of the inner package, a shuttle 21 is housed which consists of a piece of sheet metal stock folded upon itself as at 22 and clipped together as at 23 with a reel 24 which is held by trunions 25 stamped inwardly from the sheet stock 21 to enter the hollow spindle of the reel 24. The serving material 18 may be wound upon this reel 24 by removing it from the sheet stock and then replacing it in this shuttle which provides for an easier manner of serving the plurality of strands of the bowstring than would be the case if a long end had to be passed several times around the strand.

A heavy coating of wax is desired upon the several strands of the bowstring and also upon the serving strand, and this wax is provided in the form of a cake 26 which is of a shape substantially the same as the shape of the recess 14 in the head 12; and when pressed into the head, will stay in this assembled position and form a bottom for both the tubular headed core 10 of the body and also the headless tubular core 19 of the inner package 18 upon which the serving strand material is formed.

By this arrangement of a kit package, all of the component parts which are used for a bowstring are provided in one unit assembly, and I have so proportioned the parts that they serve to provide a given number of strings for an average bow of 40 to 50 pounds pull weight. Such a bow requires substantially five and one-half feet string length and twelve strands of the packaged material. A little extra is also left. I thus provide for ten strings 250 yards on the outside of the core 10 as at 15 and 50 yards of serving strand on the core 19, the wax in the end being sufficient to thoroughly wax with a heavy coating all of this strand material. The only part which is not consumed in the formation of a bowstring are the cores and shuttle which might be used again if desired.

I claim:

A bowstring kit package comprising in a unitary structure marketable as such, a body tubular core having a head at one end, strand material wound on the outer surface of said core, a headless tubular core having strand material wound thereon, said headless core being housed within said body tubular core and being removable as a unit therefrom, a shuttle held within said headless core, said head being inwardly recessed and a cake of wax for application to the strand material in said recess closing the ends of said cores and holding the shuttle in said headless core.

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