

J. P. KELLY.  
CORD TIP.  
APPLICATION FILED SEPT. 2, 1921.

1,420,657.

Patented June 27, 1922.

*Fig. 1.*

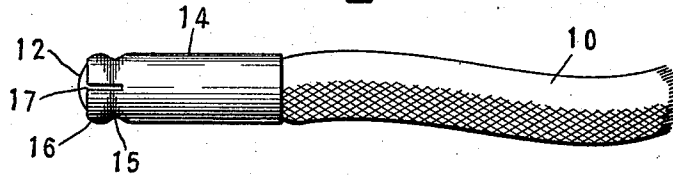


*Fig. 2.*

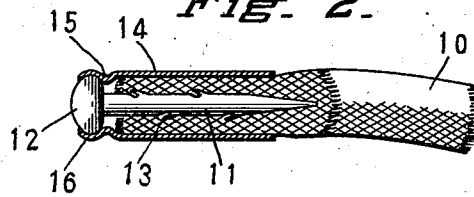


*Fig. 3.*

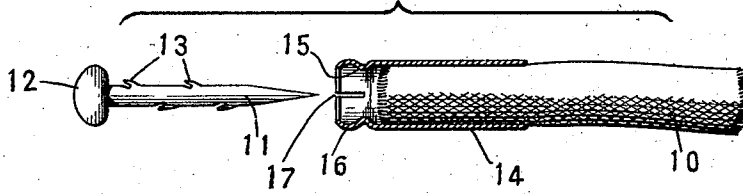


*Fig. 4.*

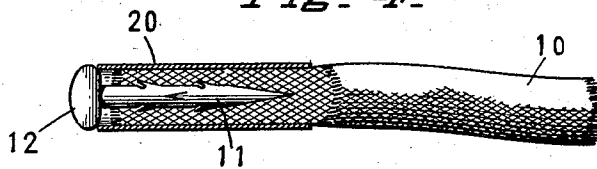


*Fig. 5.*

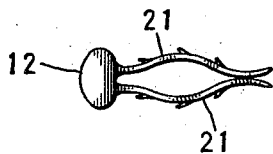
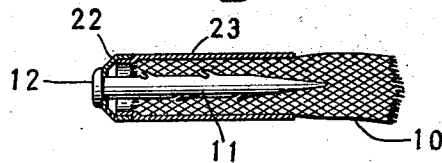


*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

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## CORD TIP.

1,420,657.

Specification of Letters Patent. Patented June 27, 1922.

Application filed September 2, 1921. Serial No. 497,867.

*To all whom it may concern:*

Be it known that I, JAMES P. KELLY, a citizen of the United States of America, residing at New York city, New York County, New York, have invented a new and useful Cord Tip, of which the following is a specification.

My invention relates to a tip or device for finishing or protecting the end of a cord or the like.

The main object is to provide a simple but inexpensive construction which may be readily applied to the end of a cord for preventing it from raveling or fraying out.

Another object is to provide a construction which may be removed and re-applied when necessary.

In its preferred form, the invention contemplates the use of an interior toothed or spiked member adapted to be pushed into the end of a cord, and an exterior sleeve adapted to be adjusted or slipped longitudinally of the cord and to embrace the end of the cord surrounding the spikes or teeth.

Figure 1 is a side view of a construction embodying the improvements of my invention.

Fig. 2 is a sectional view thereof.

Fig. 3 shows the parts being applied.

Fig. 4 shows a modification illustrated in my former application #472,429, filed May 25, 1921, from which application this present application is a continuation.

Fig. 5 is a side view of a modified form of an interior clamping member.

Fig. 6 is a sectional view of another modification.

10 indicates a part of the cord, rope, or lacing, which for convenience will be termed a "cord." The inner part of the clamping means has a shank 11 and a head 12. The shank is preferably pointed at the end opposite the head and provided with a plurality of spikes or teeth 13 inclined toward the head so that the shank and teeth or spikes can be readily pushed into the end of the cord, but cannot be pulled out when the parts are assembled. The sleeve 14 is provided with a shoulder 15 normally abutting against the inner face of the head 12. The sleeve may also have an outer flange 16 em-

bracing the head to more securely hold the parts together. The sleeve may be split at 17 so as to make it resilient at this end and enable it to be more readily assembled on the head. To assemble the parts, the sleeve is first slipped over the end of the cord a sufficient distance to permit the end to project beyond the sleeve. The shank 11 is then pushed into the end of the cord and the sleeve slipped back toward the end until the head 12 snaps into the grip of the yielding flange 16 of the sleeve. To separate the parts, the cord may be bent so that the pointed end of the shank either protrudes through the side of the cord or at any rate may be reached and pushed upon while the sleeve 14 is slipped to the right as viewed in Fig. 2 sufficiently to disengage the head 12.

In the form shown in Fig. 4 the end of the sleeve 20 abuts against the head 12 in one direction.

In the form shown in Fig. 5, the shank of the inner member is formed of two strips 21—21, each of which is provided with teeth and is bowed outwardly so as to exert a yielding pressure toward the inner wall of the sleeve (not shown in this figure).

In the form shown in Fig. 6, the head 22 of the inner member fits outside of the end of the sleeve.

It will be seen that all of the forms described consist of simple parts which may be readily made and readily assembled. The inclined spikes or teeth securely hold the parts together against accidental separation, as the harder the pull upon the cord the more securely the teeth become embedded.

I claim:

1. A cord tip comprising an inner member having a pointed shank with inclined spikes and an outer sleeve for embracing the cord around said spikes.

2. A cord tip comprising an inner member having a head and shank with inclined spikes pointed toward the head, and an outer sleeve member for surrounding a cord and adjacent said spikes.

3. A cord tip comprising an inner member having a shank and a head, and a sleeve for embracing the end of the cord around said

shank and having a flanged portion embracing said head.

4. A cord tip comprising an inner member having a shank and a head and an outer sleeve member for surrounding the end of a cord 10 around said shank, said shank extending beyond said sleeve at its inner end.
- 5 sleeve member for surrounding the end of a cord around said shank, said sleeve member having a split end engaging said head.

5. A cord tip comprising an inner member having a shank and a head and an outer sleeve for surrounding the end of a cord 10 around said shank, said shank extending beyond said sleeve at its inner end.

JAMES P. KELLY.