H. D. CHAFFEE.

SHOE LACE TIP.

APPLICATION FILED JUNE 16, 1921.

1,402,341. Patented Jan. 3, 1922.

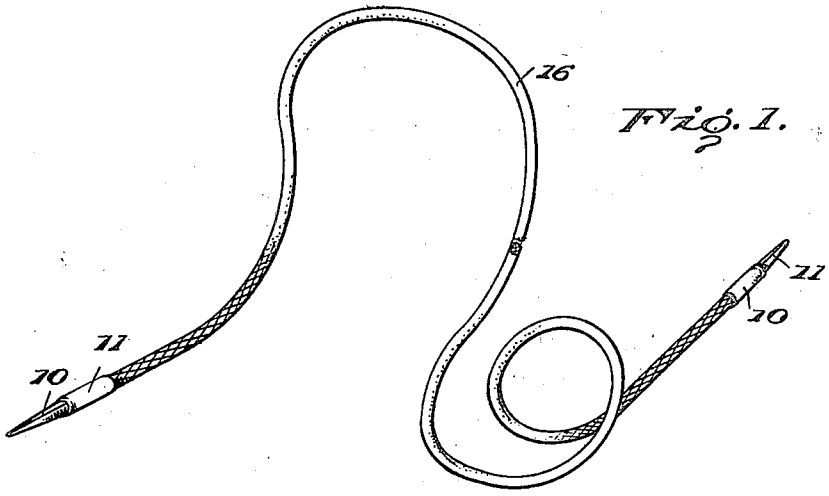


Fig. 1.

Fig. 2.

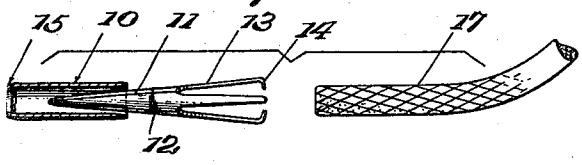


Fig. 3.

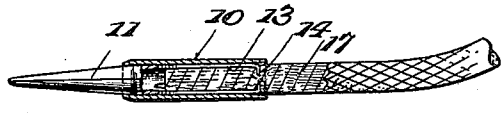
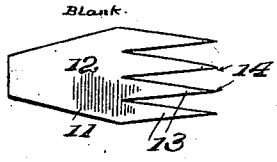


Fig. 5.



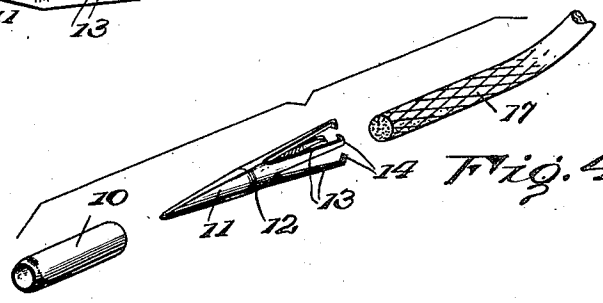


Fig. 4.

WITNESSES.

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SHOE-LACE TIP.

1,402,341. Specification of Letters Patent. Patented Jan. 3, 1922.

Application filed June 16, 1921. Serial No. 477,973.

To all whom it may concern:

Be it known that I, HAROLD D. CHAFFEE, a citizen of the United States, and a resident of South Manchester, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Shoe-Lace Tips, of which the following is a specification.

This invention relates to a tip for laces.

The primary object of the invention is to provide a tip of the above character which is adapted to be quickly and easily attached to the end of a shoe lace or the like.

It is also an object of the invention that the tip be adapted to not become detached from the lace during the use thereof.

Other objects and advantages of the invention will be apparent during the course of the following description.

The invention is illustrated by way of example in the accompanying drawings, in which:—

Figure 1 is a perspective view of a shoe lace when provided with tips constructed in accordance with the present invention,

Figure 2 is a group view illustrating the manner in which the tip may be attached to the end of a shoe lace,

Figure 3 is an enlarged detail view showing the tip when attached to an end portion of a shoe lace, partly being shown in section to more clearly illustrate the invention, and

Figure 4 is a group view similar to Figure 2 but showing the elements which comprise the tip when separated.

Fig. 5, is a view of blank used for the tip proper.

Referring to the drawings more particularly, the tip comprises a sleeve 10 and a conical-shaped member 11 exteriorly threaded near its base portion, as at 12, and also formed with tangs 13 which extend from the base portion thereof and each tang having formed at its outer end an inwardly projecting pointed tooth 14. The member 11 is preferably formed of metal which is adapted to give the tangs 13 a certain resiliency. The sleeve 10 is formed with a tapered portion 15 at its one end, said tapered portion being interiorly threaded, as shown in Figure 2, and adapted to operatively engage with the threaded portion 12 of the member 11 when the said sleeve is suitably positioned upon the member 11 for this purpose.

Referring to Figure 1, 16 indicates a shoe lace or the like, an end portion of which is shown in Figures 2, 3 and 4 and indicated by the reference numeral 17.

In applying the tip the end 17 of the lace is positioned between the tangs 13 and then the sleeve 10 is slid about the tangs 13 and rotated so that it may have threaded engagement with the member 11. The sleeve 10 when in this position will clamp the tangs 13 upon the lace and also press the teeth 14 into the lace as shown in Figure 3, and in this manner secure the tip to the lace against any possibility of detachment therefrom. It is also obvious in case the lace becomes broken near its end the tip may be easily detached and again secured to the end of the lace.

Having thus described the invention, what I claim is:

1. A tip for lacings comprising in combination a conical-shaped member having a plurality of tangs forming a continuation of the base portion thereof, said tangs being adapted to receive therebetween the end of a lace, and a sleeve adapted to telescope said tangs and clampingly hold them upon the lace.

2. A tip for laces comprising in combination a conical-shaped member having a plurality of resilient tangs forming a continuation of its base portion, said tangs being adapted to receive therebetween the end of the lace, an inwardly projecting pointed tooth formed on the end of each tang, and a sleeve adapted to telescope said tangs and clampingly hold them upon the lace.

3. A tip for laces comprising in combination a conical-shaped member having a plurality of resilient tangs forming a continuation of its base portion, said tangs being adapted to receive therebetween the end of the lace, an inwardly projecting pointed tooth formed on the end of each tang, a sleeve adapted to telescope said tangs and clampingly hold them upon the lace, and cooperating threads formed upon the inte-

rior of said sleeve and the exterior of said conical-shaped member, whereby said sleeve will be held against movement.

4. A tip for laces comprising in combination a conical-shaped member having a plurality of resilient tangs forming a continuation of its base portion, said tangs being adapted to receive therebetween the end of the lace, an inwardly projecting pointed tooth formed on the end of each tang, a sleeve adapted to telescope said tangs and clampingly hold them upon the lace, and means by which said sleeve may be held against movement.

HAROLD D. CHAFFEE.