No. 752,433. PATENTED FEB. 16, 1904.

F. A. BAGLEY.

SHOE LACE TIP.

APPLICATION FILED NOV. 19, 1903.

NO MODEL.

Fig. 1.

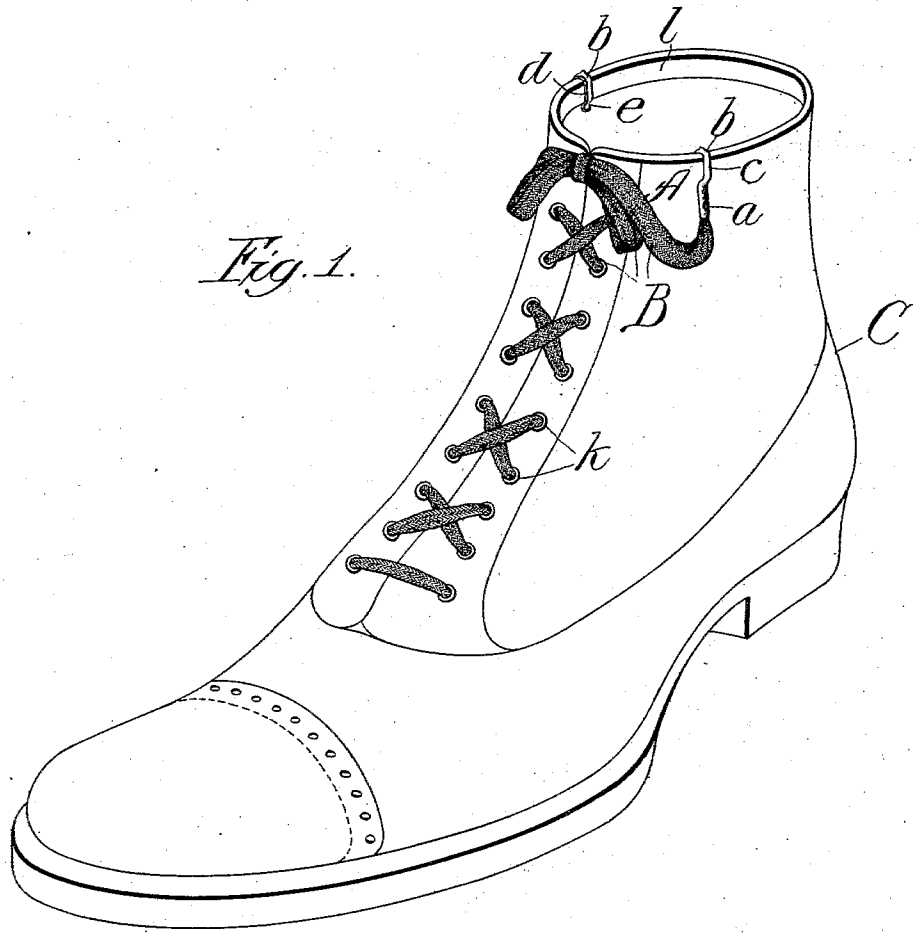


Fig. 2.

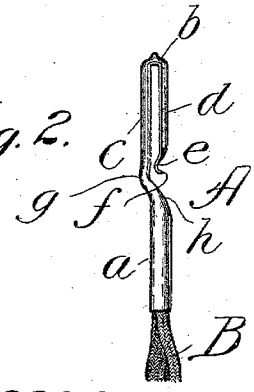
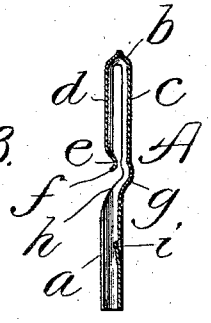


Fig. 3.



Witnesses:
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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UNITED STATES PATENT OFFICE.

FRANK A. BAGLEY, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO ARTHUR B. ADAIR, OF CHICAGO, ILLINOIS.

SHOE-LACE TIP.

SPECIFICATION forming part of Letters Patent No. 752,433, dated February 16, 1904.

Application filed November 19, 1903. Serial No. 181,807. (No model.)

To all whom it may concern:

Be it known that I, FRANK A. BAGLEY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Shoe-Lace Tips, of which the following is a specification.

My object is to provide a shoe-lace tip in the form of a hook of novel construction which may be readily passed through the eyelets of the shoe either in the lacing or unlacing operation and operate as a ready and desirable means for hooking the ends of the lace over the top of the shoe after the lace has been tied to prevent the ends from dangling and render the tie secure.

Referring to the drawings, Figure 1 shows a shoe having a shoe-lace provided with my improved tips and the manner of their intended use; Fig. 2, an enlarged side elevation of one of the tips, and Fig. 3 a longitudinal section thereof.

The tip A is formed, preferably, from a single blank consisting of a flat strip of springy metal. The strip is shaped by bending it to produce the cylindrical shank *a* and hook portion *b*, consisting of the concavo-convex and preferably parallel stem portion *c* and tongue portion *d*. The free end portion of the tongue *d* is bent to present the inner shoulder *e* and outward-extending lip *f*, while the stem *c* is bent near its base to produce a socket *g* opposite or nearly opposite the shoulder *e*. Between the shank *a* and stem portion *c* is the inclined neck portion *h*. The free end of the hook portion is wholly within an imaginary surface formed by an extension of the circumferential surface of the shank *a*.

A tip A is secured to each end of the shoe-lace B by bending the shank tightly about the lace end. An indented prong *i* engages the lace to prevent its withdrawal from the tip. The shank and hook portions of the tip may be of approximately the same diameter, and both are capable of passing freely through the eyes *k* of a shoe C.

The gist of my invention lies in providing a tip presenting a hook for the purpose of attaching the end of the lace to the shoe to prevent the end from dangling, which hook extends at its free end within an imaginary surface formed by an extension of the shank or part where the tip and lace are joined, so that the tip may be readily inserted or withdrawn through a lacing-eyelet *k* without danger of the free end of the hooks catching upon the eyelet in the lacing or unlacing operations.

When the shoe is laced and tied, as with the usual bow-knot illustrated, the tips A at both ends of the lace may be hooked over the upper edge of the shoe. The space between the free end *f* and neck portions *h* is ample to admit the upper edge of the shoe, and in pressing or drawing the tip downward to the position shown in Fig. 1 the springy nature of the metal permits the hook to pass readily over the usual seam or hem *l*. When in position, the shoulder *e* of the hook will tend to press the shoe material into the socket *g* and present a shoulder beneath the shoulder formed by the seam for holding the tip against accidental withdrawal from the edge of the shoe.

While I prefer to construct the shoe-lace tip throughout as shown and described, it may be variously modified in the matter of details of construction without departing from the spirit of my invention as defined by the claims.

What I claim as new, and desire to secure by Letters Patent, is—

1. As a new article of manufacture a shoe-lace tip having a lace-engaging shank and a hook portion adapted to engage the upper edge portion of a shoe and having its free end portion wholly within an imaginary surface formed by an extension of the shank, substantially as and for the purpose set forth.

2. As a new article of manufacture a shoe-lace tip of springy metal having a lace-engaging shank and a hook portion adapted to engage the upper edge portion of a shoe and having its free end portion wholly within an imaginary surface formed by an extension of the shank, substantially as and for the purpose set forth.

3. As a new article of manufacture a shoe-lace tip having a lace-engaging shank and a hook portion adapted to engage the upper edge portion of a shoe provided at its free end

portion with a shoulder *e* and lip *f* within an imaginary surface formed by an extension of the shank, substantially as and for the purpose set forth.

4. As a new article of manufacture a shoe-lace-tip having a lace-engaging shank and a hook portion adapted to engage the upper edge portion of a shoe formed with the parallel stem *c* and tongue *d*, the free end portion of the tongue having the shoulder *e* and lip *f*, substantially as and for the purpose set forth.

5. As a new article of manufacture a shoe-lace tip formed with a tubular shank *a*, inclined neck portion *h*, socket *g*, parallel parts *c*, *d*, shoulder *e* and lip *f* all constructed and arranged to operate, substantially as and for the purpose set forth.

FRANK A. BAGLEY.

In presence of—
WALTER N. WINBERG,
W. B. DAVIES.