Nov. 3, 1925. 1,560,217

A. L. COCHRANE

FASTENER FOR LACES, CORDS, AND THE LIKE

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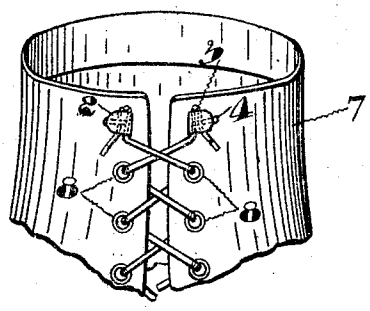


Fig. 1.

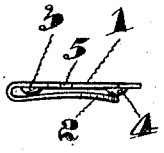


Fig. 2.

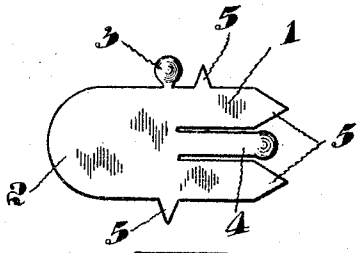


Fig. 3.

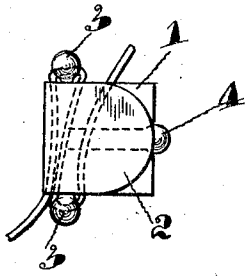


Fig. 4.

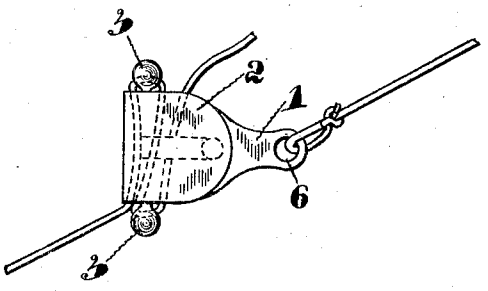


Fig. 5.

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UNITED STATES PATENT OFFICE.

ARTHUR LEWIS COCHRANE, OF TORONTO, ONTARIO, CANADA.

FASTENER FOR LACES, CORDS, AND THE LIKE.

Application filed July 23, 1924. Serial No. 727,658.

To all whom it may concern:

Be it known that I, ARTHUR LEWIS COCHRANE, of the city of Toronto, in the county of York, Province of Ontario, Canada, a subject of the King of Great Britain, have invented certain new and useful Improvements in Fasteners for Laces, Cords, and the like, of which the following is a specification.

This invention relates to fasteners as used on boots and shoes to secure the end of the lace and to avoid the tying of knots or bows, and the object of my invention is to devise an arrangement for this purpose which is very simple and cheap to manufacture, which will not disfigure the appearance of the boot or shoe to which it is attached, and which will have a very firm grip on the lace.

A further object is to arrange my fastener, so that with little modification it may be used as a package tie, or if made on a larger scale, used as a fastener for heavy ropes.

I attain my objects by means of the constructions hereinafter described and illustrated in the accompanying drawings in which—

Fig. 1 is a front view of part of a shoe showing the simplest form of my invention applied thereto;

Fig. 2 a top view of one of the fasteners shown in Fig. 1;

Fig. 3 a plan view of the blank from which the fastener is formed;

Fig. 4 a front view of a modified form of fastener; and

Fig. 5 a front view of a further modification adapted for use as a package tie or rope clamp.

In the drawings like numerals of reference indicate corresponding parts in the different figures.

7 is the upper of a shoe and 8 the usual eyelets for the lace. The upper eyelet usually employed is, however, dispensed with and the fastener I will now describe substituted.

The fastener in its simplest construction as shown in Figs. 1 to 3 is formed of an integral piece of metal bent upon itself to form a hook and comprises a back or base 1 and a face piece 2. At the upper side of the back adjacent the bend is formed a projection 3 extending transversely of the hook, the end of which projection is preferably stamped up to form a knob, while stamped up from the back is the tongue 4, the free end of which is also preferably formed as a knob.

The back is secured in position on the shoe by means of prongs 5 formed on the sides and end of the back.

The lace is threaded through the eyelets 2 in the usual way and the end of the lace is then slipped between the back 1 and face piece 2, then under the projection 3 and back between the back and face piece and over the tongue as shown at the right hand side of Fig. 1, the tongue 4 tending to hold the lace in frictional engagement with the under surface of the face piece.

The lace may, if preferred, be inserted between the back and under the tongue 4 as shown at the left hand side of Fig. 1.

In Fig. 4 I show a modification in which a projection 3 is formed at each side of the back, in which case the lace might be threaded as indicated in Fig. 1, and then continued down and under the lower projection and again up between the back and face piece.

In Fig. 5 is shown a modification adapted for use as a package tie. This might be formed with one or two projections 3 as preferred, but the back is extended in length and provided with an eye 6 in which the end of the cord is secured, the other end after having been passed around the package, being secured in place in the manner shown in Figs. 1 or 4.

By making the device shown in Fig. 5 of suitable size, it may be used as a rope clamp.

In the claims the term "lace" is meant to include any cord, rope or the like which may be used for the purpose specified.

From the above description it will be seen that I have devised a construction which will satisfactorily attain the objects of my invention as set out in the preamble of this specification.

What I claim is:—

1. In a fastener for shoe laces and the like, the combination of a hook shaped member in which a lace is adapted to be received and frictionally engaged; and a projection extending transversely of the hook at one side thereof, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the hook.

2. In a fastener for shoe laces and the like, the combination of a hook shaped mem-

ber in which a lace is adapted to be received; a projection extending transversely of the hook at one side thereof; and a tongue on said hook adapted to frictionally engage the lace to retain it in said hook, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the back.

3. In a fastener for shoe laces and the like, the combination of a hook-shaped member comprising a back and a face piece between which the lace is adapted to be received and frictionally engaged; and a projection extending transversely of the hook at one side of said back adjacent its point of connection with the face piece, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the hook.

4. In a fastener for shoe laces and the like, the combination of a hook-shaped member comprising a back and a face piece between which the lace is adapted to be received; a projection extending transversely of the hook at one side of said back adjacent its point of connection with the face piece; and a tongue on said back behind the face piece adapted to frictionally engage the lace, to retain it in said hook, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the hook.

5. In a fastener for shoe laces and the like, the combination of a hook-shaped member comprising a back and a face piece between which the lace is adapted to be received and frictionally engaged; and a projection extending transversely of the hook at each side of said back adjacent its point of connection with the face piece, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the hook.

6. In a fastener for shoe laces and the like, the combination of a hook-shaped member comprising a back and a face piece between which the lace is adapted to be received; a projection extending transversely of the hook at each side of said back adjacent its point of connection with the face piece; and a tongue on said back behind the face piece adapted to frictionally engage the lace to retain it in said hook, said projection being positioned adjacent the throat of the hook whereby the lace which is engaged in the hook may be passed round the projection and then re-engaged in the hook.

7. In a fastener for shoe laces and the like, the combination of a hook-shaped member comprising a back and a face piece between which one end of the lace is adapted to be received and frictionally engaged; and a projection extending transversely of the hook at one side of said back adjacent its point of connection with the face piece, said back being formed with an extension to which the other end of the lace may be secured.

8. In a fastener for shoe laces and like, the combination of a hook-shaped member comprising a back and a face piece between which one end of the lace is adapted to be received; a projection extending transversely of the hook at one side of said back adjacent its point of connection with the face piece, said back being formed with an extension to which the other end of the lace may be secured; and a tongue on said back behind the face piece adapted to frictionally engage the lace.

Signed at Toronto, Canada, this 4th day of July, 1924.

ARTHUR LEWIS COCHRANE.