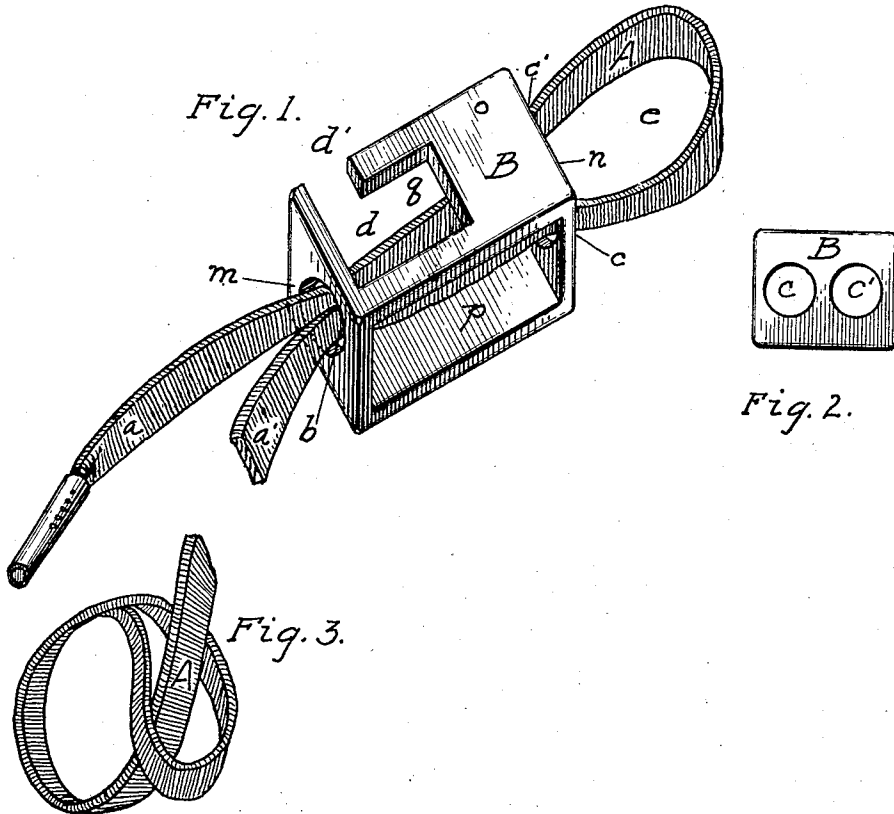


P. M. HAMMALIAN.
SHOE LACE.
APPLICATION FILED DEC. 20, 1909.

969,054.

Patented Aug. 30, 1910.



WITNESSES:

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UNITED STATES PATENT OFFICE.

PETER M. HAMMALIAN, OF FRESNO, CALIFORNIA.

SHOE-LACE.

969,054.

Specification of Letters Patent.

Patented Aug. 30, 1910.

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To all whom it may concern:

Be it known that I, PETER M. HAMMALIAN, citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented new and useful Improvements in Shoe-Laces, of which the following is a specification.

My invention relates to improvements in shoe-laces commonly used in fastening the ordinary foot-wear of men, women, and children and the objects of my improvements are: (1) To fasten the shoe on with a short single string; (2) to dispense with the tightening and loosening of more than one string; (3) to dispense with the tying and untying of the shoe string, thus facilitating the putting on and removal of the shoe. I attain these objects by the mechanism illustrated in the accompanying drawing, in which—

Figure 1. shows the perspective view of the upper part of the shoe-lace with sliding button attachment used when the shoe is provided with eyelet-hooks; Fig. 2. is the upper end view of the button shown in Fig. 1.; Fig. 3 is a view of the lower end of the lace, showing a loop by which the lace is secured in the bottom eyelets of the shoe without knotting the lace.

A. represents the string which attaches in neat manner in the bottom eyelets of the shoe by a loop as shown in Fig. 3, and B. and C. are the sliding buttons, through which the string passes, after passing through all but the last eyelet or eyelets and eyelet-hooks of the shoe and by which the lace is fastened taut to the uppermost eyelet-hook by means of button marked "B," or to the uppermost eyelet (if the shoe is not provided with eyelet-hooks) by means of the button marked "C."

The button "B" is small, hollow and rectangular, with one hole (*b*) in the end (*m*), two holes (*c* and *c'*) in the end (*n*), with the side (*o*) partly closed, having a slot (*d*) into which the eyelet-hook of the shoe fits and hooks, entering into position by slipping through the slot (*d'*), the side (*q*) being entirely open.

The shoe string, after passing back and forth through the eyelets and around the eyelet-hooks of the shoe, passes through the hole (*b*) in the end (*m*) of the button "B," through the button, out at the hole (*c*) in the end (*n*) and then back through the button, entering at the hole (*c'*) in said

end (*n*) and coming out through the said hole (*b*). After the string is pulled taut and the button set at the proper point on the string "A," the loop (*e*) is taken up by drawing on the upper end (*a*) of the string "A" until the loop (*e*) disappears and the string binds in the holes (*c*) and (*c'*). The button remains at the same point on the string, from day to day, and is made fast to the uppermost eyelet-hook by slipping the slotted side (*o*) of the button into the hook of the eyelet-hook by way of the open side (*q*) and the slot (*d'*), into the slot (*d*), with the broad tip of the hook within the button, and the eyelet part of the hook and surface of the shoe resting against the side (*o*) of the button "B," the tip of the hook pointing toward the end (*n*) and holding the string taut in that direction. In loosening the lace the button is pushed in the direction of the end (*n*) until the neck of the eyelet-hook comes even with the slot (*d'*), whereupon the button is slipped sideways out through the open side (*q*) by way of said slot (*d'*) and the lace is free to drop out of the remaining eyelet-hooks and be loosened as in any ordinary shoe lace.

What I claim as my invention is:—

1. In combination a shoe lace and a small, hollow, sliding button upon said shoe lace, the said button having one hole in one end and two holes in the opposite end, and having one side slotted with a rectangular slot lengthwise of said button, having a second slot running perpendicular to the said first described slot, at the end next the end of the button having but one hole in it and extending to one of the adjoining sides of said button, substantially as set forth.

2. The combination of a hollow button with a shoe lace, one end of said shoe lace looped and passing through and back in the hollow button, said button having one hole at one end and two holes in the other end and two adjoining sides open as follows: one entirely open and the other notched and slotted to receive and secure an ordinary eyelet hook of a shoe, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

PETER M. HAMMALIAN.

Witnesses:

U. G. HAYDEN,
A. JOHNSON.