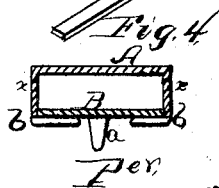
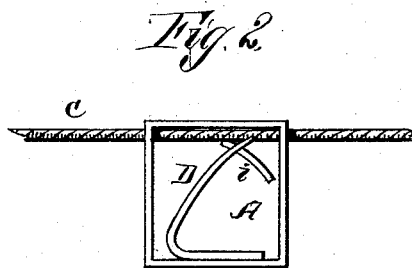
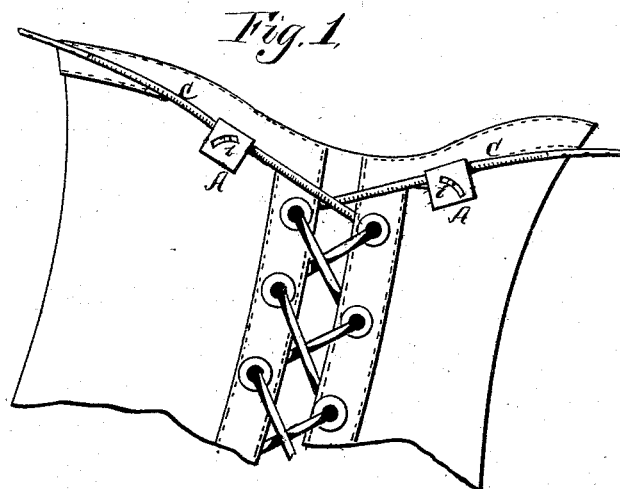


H. C. KLEIN.  
Shoe-Lace Fastener.

No. 219,274.

Patented Sept. 2, 1879.



Witnesses:  
W. C. M. Arthur,  
John C. Rogers,

Inventor,  
Henry C. Klein,  
J. H. Alexander & Co.,  
Attorneys

# UNITED STATES PATENT OFFICE.

HENRY C. KLEIN, OF MUNCIE, INDIANA.

## IMPROVEMENT IN SHOE-LACE FASTENERS.

Specification forming part of Letters Patent No. **219,274**, dated September 2, 1879; application filed July 23, 1879.

### *To all whom it may concern:*

Be it known that I, HENRY C. KLEIN, of Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Shoe-Lace Fasteners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

My invention relates to fastenings for shoe-laces, and is intended as an improvement upon Letters Patent No. 213,666, granted to me March 25, 1879.

It consists in certain peculiarities of construction, as will be hereinafter more fully set forth, and pointed out in the claim.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawings, in which—

Figure 1 is a side view of a shoe, showing my fastener attached. Fig. 2 is a back view with plate removed. Fig. 3 is a perspective of the spring, and Fig. 4 is a cross-section through the box.

A represents a small box of suitable dimensions, struck up from thin sheet metal, and formed with projecting tongues *a* for fastening the same to the shoe.

B is a bottom plate for closing the box, which plate is held in place by means of catches or tongues *b*, as shown, or in any other suitable manner.

In opposite sides of the box, near the corners, are openings or holes *x x* for the passage of the end of the shoe-lace C.

Within the box A is placed a spring, D, bent in V or U form, one end or arm of which bears against one side of the box, and the other arm or end of the spring comes near the side of the box where the shoe-lace passes, so that the extreme end of the spring will catch into said lace and hold it so that it cannot slip back, but can easily be pulled forward for tightening the same. This part of the spring has a projection, *d*, which extends upward through a curved slot, *i*, in the top of the box, to act as a thumb-piece for moving back the spring and releasing the lace or cord, so that it can be loosened when desired.

In my former patent above referred to, a cam was used for holding the shoe-lace, and a spring was arranged to act on said cam. I have found, however, that the cam can be dispensed with by constructing the spring D to act in the manner described, thus not only simplifying the device, but making it more positive in its action.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a shoe-lace fastening, the box A, having apertures *x x* and curved slot *i*, and the spring D, with projection *d*, arranged to operate substantially in the manner and for the purposes herein set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

HENRY C. KLEIN.

Witnesses:

JOHN W. LITTLE,  
J. R. H. CASSADY.