No. 756,690. PATENTED APR. 5, 1904.

D. C. NOWELS.

LACING STRING FASTENER.

APPLICATION FILED DEC. 22, 1903.

NO MODEL.

Fig. 1

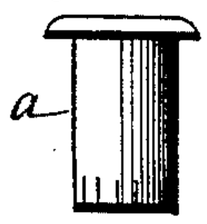


Fig. 3

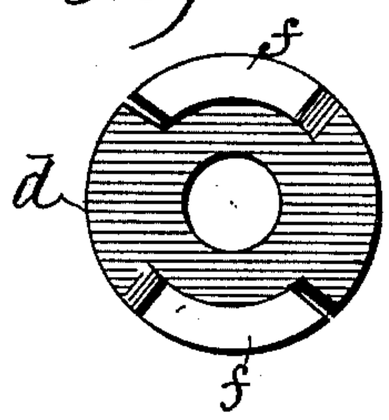


Fig. 2

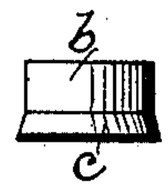
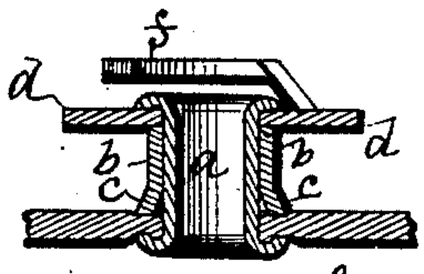


Fig. 4



Leather.

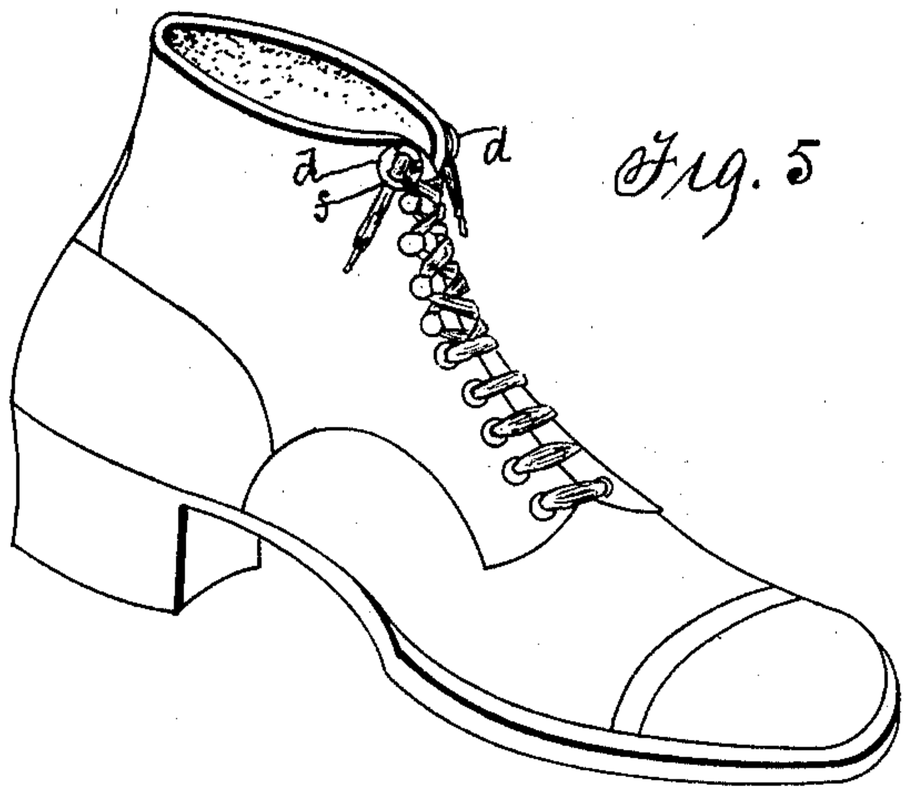


Fig. 5

Witnesses:
F. F. Leibrock.
R. H. Orwig.

Inventor: David C. Nowels,
By Thomas G. Orwig,
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No. 756,690. Patented April 5, 1904.

UNITED STATES PATENT OFFICE.

DAVID C. NOWELS, OF ROCKWELL CITY, IOWA, ASSIGNOR OF ONE-HALF TO J. F. LAVENDER, OF ROCKWELL CITY, IOWA.

LACING-STRING FASTENER.

SPECIFICATION forming part of Letters Patent No. 756,690, dated April 5, 1904.

Application filed December 22, 1903. Serial No. 186,240. (No model.)

To all whom it may concern:

Be it known that I, DAVID C. NOWELS, a citizen of the United States, residing at Rockwell City, in the county of Calhoun and State of Iowa, have invented a new and useful Lacing-String Fastener, of which the following is a specification.

My object is to provide a simple, neat, strong, and durable device specially adapted to be fixed to shoes for fastening the ends of lacing-strings securely as required to retain a shoe closed upon a person's foot and to prevent the annoyances incident to the ends of strings becoming untied, hanging down to be tread upon, and allowing the shoe to open across the instep of the wearer's foot.

My invention consists in the construction, arrangement, and combination of a tubular eyelet, an open-ended tube, and a disk provided with two integral tongues, with a shoe, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a view of a tubular rivet, and Fig. 2 an open-ended tube adapted to be placed on the rivet to be clamped fast to a shoe. Fig. 3 is a top view of a disk provided with integral tongues. Fig. 4 is an enlarged transverse sectional view and shows the positions of the three distinct parts relative to each other and the shoe-leather to which they are jointly fastened. Fig. 5 shows two of my devices applied to a shoe as required for practical use.

The letter *a* designates a tubular metal rivet of common form, and *b* an open-ended tube that is enlarged at its lower end to produce an annular clamp *c*, adapted to engage and fasten to the outside surface of shoe-leather, as shown in Fig. 4, and as required to prevent it from rotating on the rivet *a*. A metal disk *d* has a central opening to admit the passage of the rivet *a* and two integral tongues *f* at its circumference that are produced by cutting sections in the form of arcs, loose excepting at one end, and then bending them up at their fast ends to extend parallel with the disk, but in a higher plane, as required, to admit lacing-strings to be drawn under the tongues, as shown in Fig. 5, to retain the ends of strings fastened.

To jointly fix the three metal parts *a*, *b*, and *d* to a shoe, the rivet *a* is first passed through the central opening in the disk *d*, the tube *b* then placed on the rivet, and the rivet passed through an aperture in the leather and its lower end turned outward and clenched fast, as shown in Fig. 4. All the parts are thus securely fastened together and fixed to the leather to remain stationary relative to each other, so that when lacing-strings are drawn tight, as required to close a shoe over the instep, the ends of the strings can be readily coiled around the tube *b* and then slipped under the tongues *f*, as shown in Fig. 5, to be securely detachably fastened. Reverse movements of the ends loosen them.

It is obvious the metal parts *a*, *b*, and *d* may vary in size and weight as required for fine or coarse shoes. It is also obvious that when the one end of a lacing-string is fastened to the shoe and then laced from the lower end of the shoe to the top the one end of the string only will have to be fastened at the top of the shoe, and consequently only one of my devices will be required to be fixed to the shoe. It is also obvious my invention is adapted to be fixed to corsets and other articles of apparel that require parts to be drawn together and fastened by means of lacing-strings.

Having thus set forth the construction, application, and manner of use of my invention, its practical utility will be readily understood by persons familiar with the use of lacing-strings; and

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

1. In a lacing-string fastener, the combination of a metal disk having a central aperture and a tongue at its circumference, a tubular rivet in said aperture and an open-ended tube on the rivet, as and for the purposes stated.

2. A lacing-string fastener consisting of a metal disk having a central aperture and two integral tongues at its circumference, a tubular eyelet extended through said aperture, an open-ended metal tube on the eyelet and its lower end enlarged and the three parts jointly fixed to the edge of an article of clothing in the manner shown and described for the purposes stated.

DAVID C. NOWELS.

Witnesses:
O. A. LEONARD,
ED. W. BURCH.