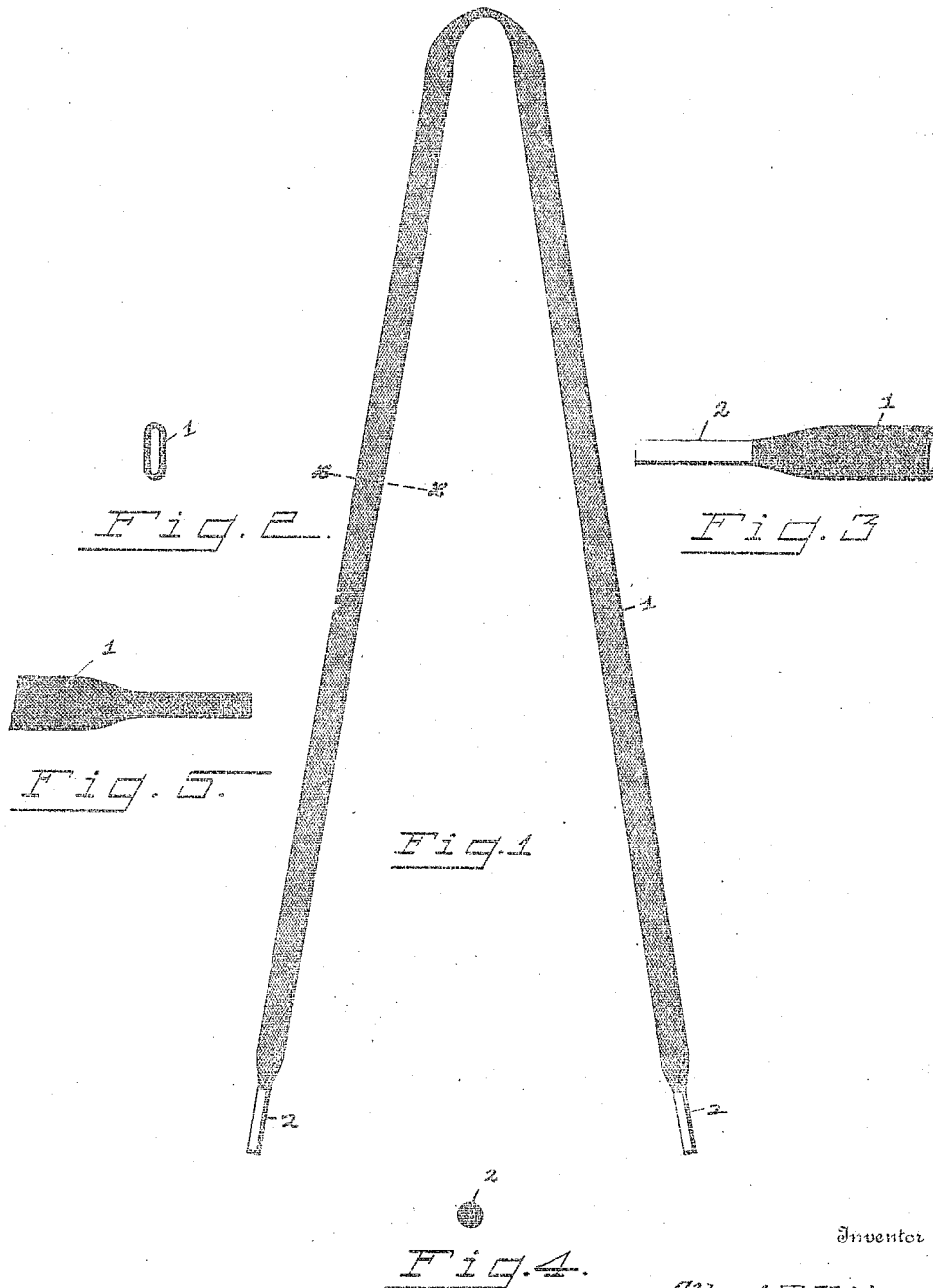


A. T. HOLT.
LACING.

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957,559.

Patented May 10, 1910.



Inventor

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Witnesses

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ALBERT T. HOLT, OF COLUMBUS, OHIO.

LACING.

957,559.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALBERT T. HOLT, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Lacings, of which the following is a specification.

My invention relates to the improvement of lacings of that class which are adapted to be passed through eyelets or openings in shoes, corsets or other articles to be laced.

The objects of my invention are to provide a lace of this class with improved tips or terminals; to so construct said tips or lace terminals as to render the same pliable and to a desirable degree flexible and at the same time impart thereto a sufficient degree of rigidity to facilitate the passing of the tip through an eyelet; to so combine the tip with the lace end as to obviate the tendency of the tip being pulled or removed therefrom, and to prevent the accidental flattening of the tip and to produce other improvements the details of which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawing, in which:

Figure 1 represents a lace having my improved tips thereon, Fig. 2 is an enlarged transverse section on line $x-x$ of Fig. 1, Fig. 3 is an enlarged end view of the lace in elevation, Fig. 4 is a transverse section of the tip, and, Fig. 5 is a view in elevation of the end of the lace showing the condition of the same before the vulcanizing process herein-after described.

Similar numerals refer to similar parts throughout the several views.

1 represents a shoe or other lace, which may be woven in the tubular form indicated in the drawing, or may be of a single flat width, as desired. In providing my im-

proved tip 2, the end portion of the lace which is intended to form a part of the tip, first has its meshes filled with a suitable rubber composition, and the lace end is afterward twisted into the rounded form indicated in Fig. 5 of the drawing. This being accomplished, the twisted rubber filled end, is by the employment of desirable vulcanizing molds, vulcanized to produce a substantially integral or solid tip body which comprises the united rubber and fabric and which through the aid of the molds, is substantially round in cross section. By this combination of rubber and the twisted fabric, a lace tip is formed which while having the desirable degree of rigidity, will at the same time be sufficiently flexible and pliable as to obviate any tendency of the same being broken, subjected to fixed bends or by accident permanently flattened.

It is well known, that where the ordinary metallic lace tips are employed, such tips are frequently bent or flattened until it is difficult to pass the same through an eyelet and the tips are often entirely separated from the material forming the lace. It will be understood that by the construction which I have described, these difficulties are entirely overcome.

What I claim, is:

A lacing tip formed by filling the end portions of the lace with a rubber composition, twisting said lace end into substantially rounded form and vulcanizing together the rubber and lace end.

In testimony whereof I affix my signature in presence of two witnesses.

ALBERT T. HOLT.

Witnesses:

C. C. SHEPHERD,
L. CARL STOUGHTON.