

No. 677,044.

Patented June 25, 1901.

S. SIMMEL & J. A. REITZ.

LACING DEVICE.

(Application filed Oct. 23, 1900.)

(No Model.)

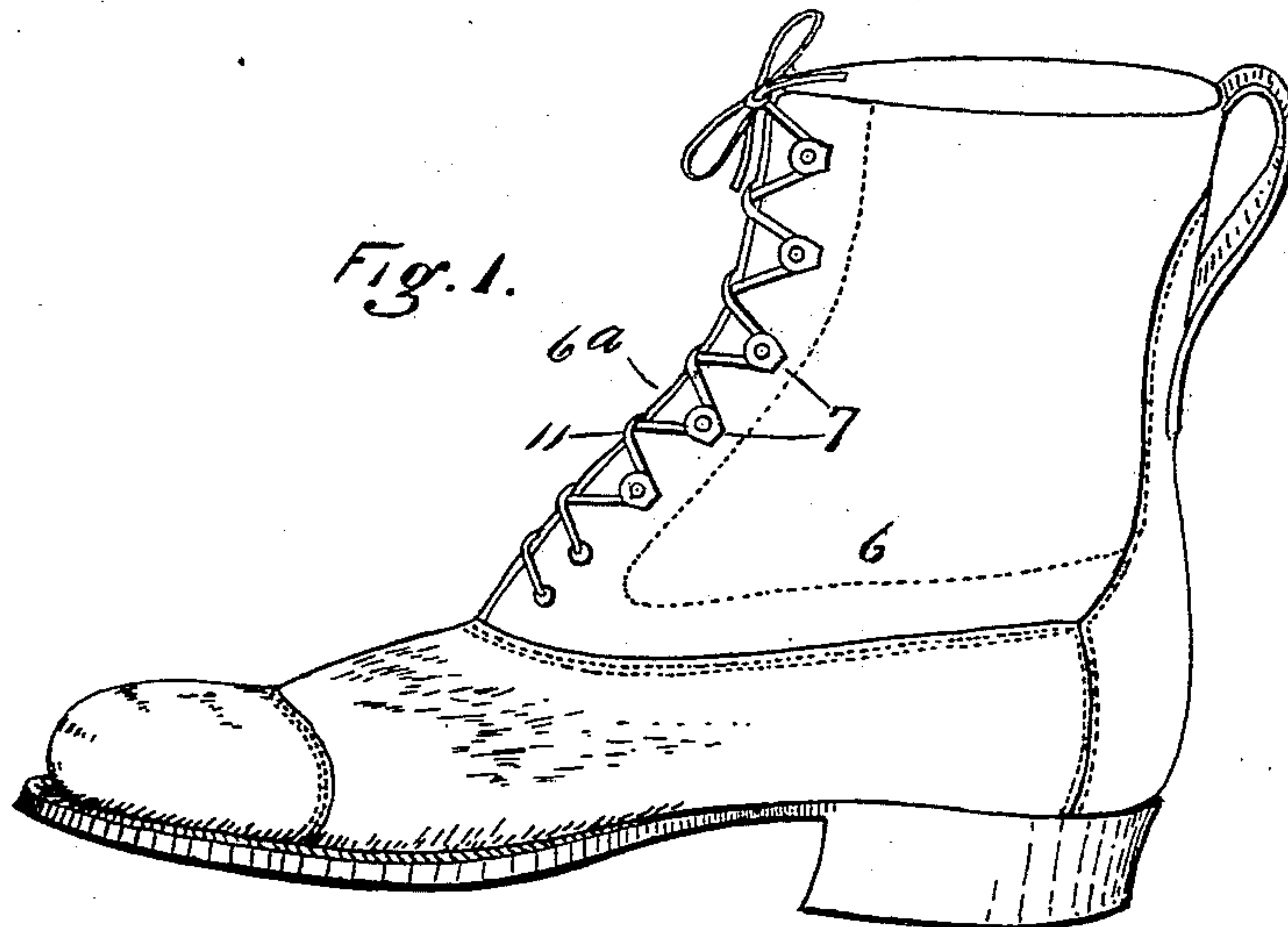


Fig. 2.

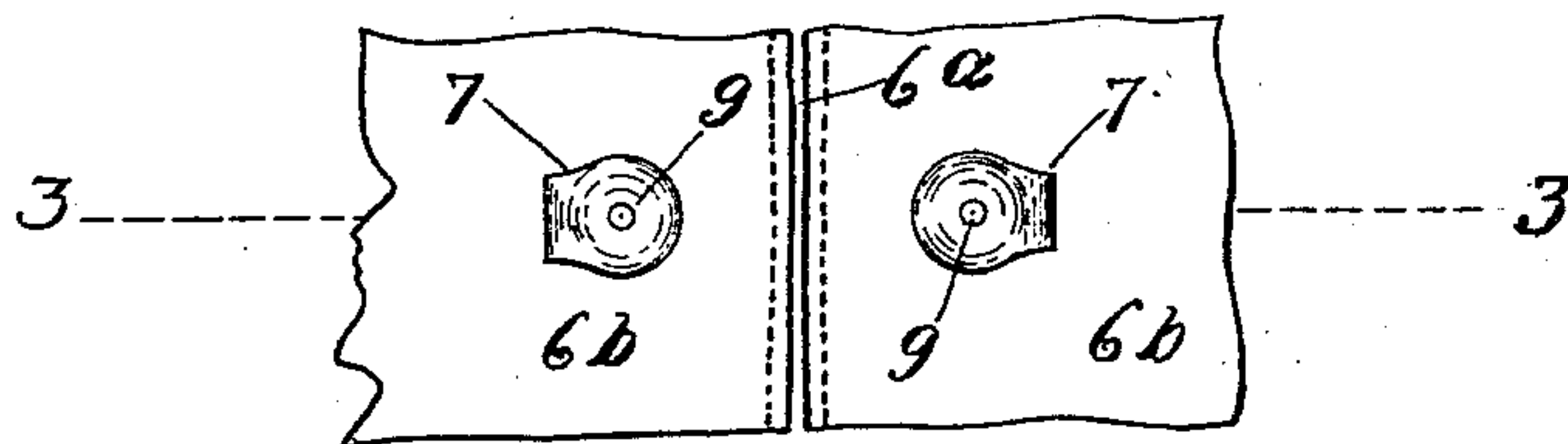


Fig. 3

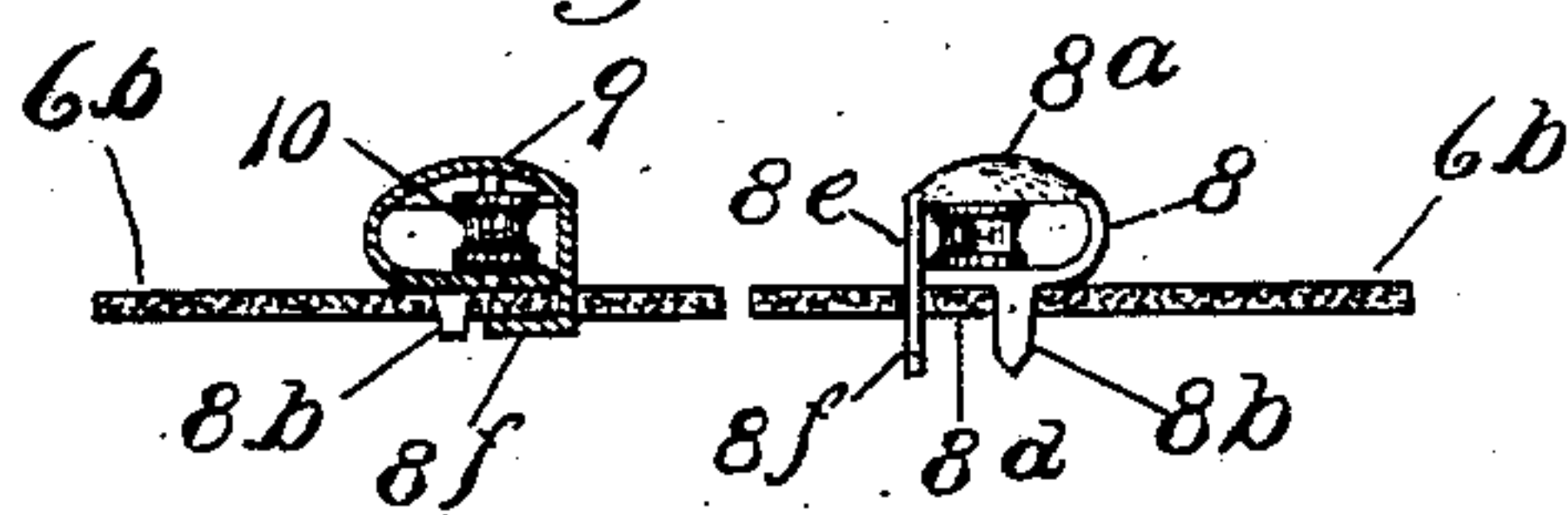
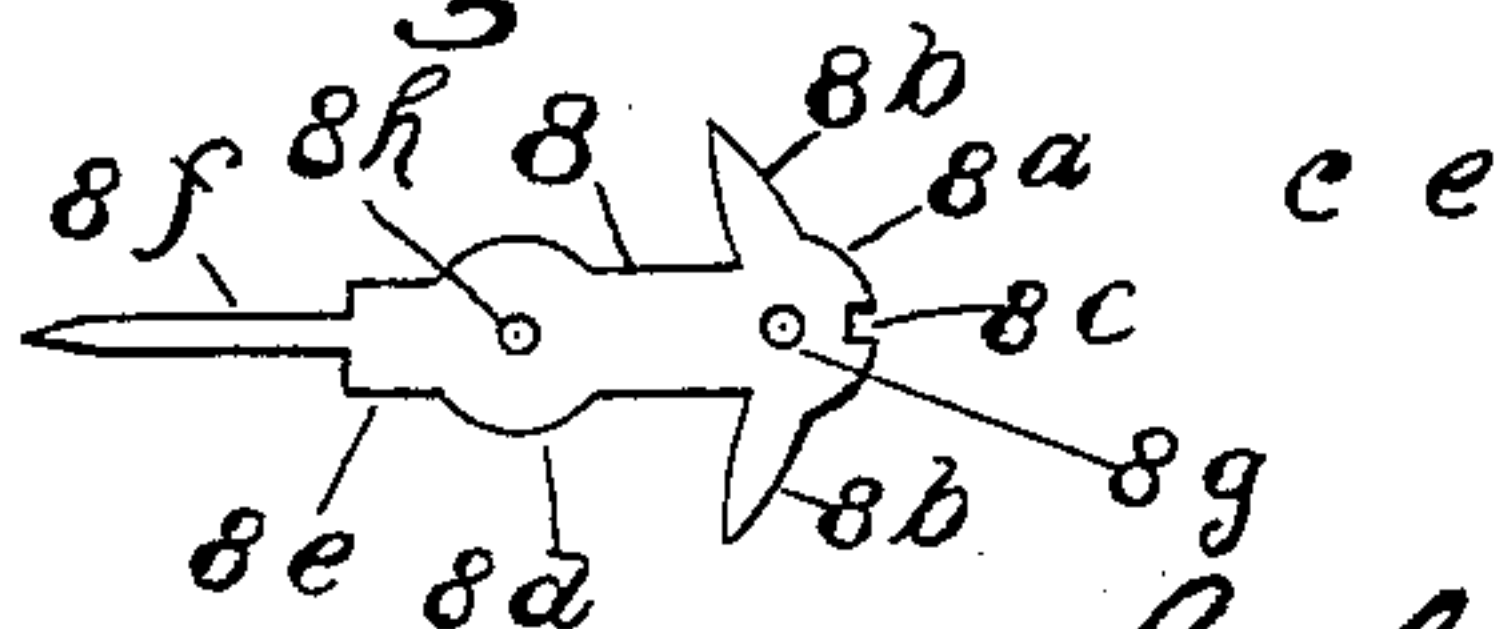


Fig. 4



WITNESSES

F. A. Stewart
C. C. Allen

Salo Simmel and
John A. Reitz
INVENTORS

BY

Edgar Sale

ATTORNEYS

UNITED STATES PATENT OFFICE.

SALO SIMMEL AND JOHN A. REITZ, OF NEWARK, NEW JERSEY.

LACING DEVICE.

SPECIFICATION forming part of Letters Patent No. 677,044, dated June 25, 1901.

Application filed October 23, 1900. Serial No. 34,060. (No model.)

To all whom it may concern:

Be it known that we, SALO SIMMEL and JOHN A. REITZ, citizens of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Lacing Devices, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to lacing devices for shoes and other articles; and the object thereof is to provide improved devices of this class whereby the laces remain at all times in the fastening device or devices with which they are connected and all that is necessary to lace the shoe or other article being to draw the laces tightly and tie them.

The invention is an improvement on that described and claimed in United States Letters Patent No. 622,721, granted to Salo Simmel April 11, 1899, and is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a side view of a shoe provided with our improvement; Fig. 2, a front view of a part thereof; Fig. 3, a partial section on the line 3 3 of Fig. 2, and Fig. 4 a plan view of a blank from which our improved fastening device is made.

In the drawings forming part of this specification the separate parts of our improvement are designated by the same reference characters in each of the views, and in said drawings we have shown at 6 a shoe of the usual form, the upper front portion of which is open, as shown at 6^a, so as to form two side flaps 6^b, and in the practice of our invention we provide fastening devices 7, which are of the following construction.

Referring to Fig. 4 of the drawings, 8 represents a blank of metal, comprising an oblong body portion provided at one end with a head 8^a, having side prongs 8^b, and in the outer edge thereof an angular notch or recess 8^c. The body portion of the blank is also provided centrally thereof with a circular part 8^d, on which is formed, opposite the head 8^a, an angular projecting member 8^e, having a prong 8^f, which projects in line with the body portion, and in forming the fastening device

the blank 8 is bent into the form shown in Figs. 2 and 3, in which the part 8^a forms the top of the fastening device. The part 8^d forms the base thereof, and the prong 8^f is passed down through the angular notch or recess 8^c. In this operation the top 8^a and the base 8^d of the fastening device are connected at one side by the body portion of the blank, which forms a loop, and the part 8^e is bent downwardly perpendicularly, as shown in Fig. 3. The blank 8 is also provided in the head 8^a with a hole 8^g and in the circular portion 8^d with a similar hole 8^h.

In securing the fastening device to the flaps of the shoe the prongs 8^b and 8^f are passed through said flaps and are then clenched on the inner side of said flaps, as shown at the left of Fig. 3.

In the operation of folding the blank to form the fastening device, as hereinbefore described, a pin 9 is secured vertically between the top or head and the base of the fastening device in the holes 8^g and 8^h, and on said pin is placed a grooved roller 10, and in passing a lacing through the fastening devices the said lacing is passed between the loop formed by the body portion of the blank at 8 and the said grooved roller.

In practice we employ the usual lace or laces 11, which are passed through the fastening devices, as above described, and when the lace or laces are threaded through all the fastening devices the separate ends thereof are pulled so as to draw the flaps of the shoe closely together, after which the ends of the lace or laces may be tied in the usual manner. By providing fastening devices of the class herein described having a central pivoted roller and threading the lace or laces through the fastening devices, as described, so that they bear on said rollers, the lace or laces may be drawn tight by pulling on the ends thereof, as will be readily understood, and when the lace or laces are untied they will slip easily through the fastening devices, thus permitting the shoe to be drawn off conveniently. It will also be observed that the fastening devices appear when secured to the shoe substantially of the usual form, and said devices are simple in construction and operation and comparatively inexpensive, and it will be ap-

parent that the same may be applied to cor-
sets, gloves, leggings, and various other arti-
cles, as well as to shoes.

Having fully described our invention, we
5 claim as new and desire to secure by Letters
Patent—

1. A fastening device composed of an ob-
long blank provided centrally with a circular
part, and at one end with a head having side
10 prongs, and a notch or recess centrally of the
outer edge, said blank being also provided
opposite said head, and at the opposite side
of said circular portion with a projecting part
provided with a prong, which extends in line
15 with the body portion, substantially as shown
and described.

2. A fastening device, comprising a top or
head 8^a, and a base 8^d, said top or head and

said base being integrally connected at one
side, and said top or head being provided at 20
the opposite side with a downwardly-directed
member provided with a prong which passes
through a notch or recess formed in the base,
and said base being also provided with prongs,
and a roller pivoted between the top or head 25
and the base, substantially as shown and de-
scribed.

In testimony that we claim the foregoing as
our invention we have signed our names, in
presence of the subscribing witnesses, this 30
20th day of October, 1900.

SALO SIMMEL.
JOHN A. REITZ.

Witnesses:

C. C. OLSEN,
F. A. STEWART.