

(No Model.)

W. H. BUXTON.
SHEET METAL SHOE PLATE OR SPIKE.

No. 527,403.

Patented Oct. 16, 1894.

Fig. 1.

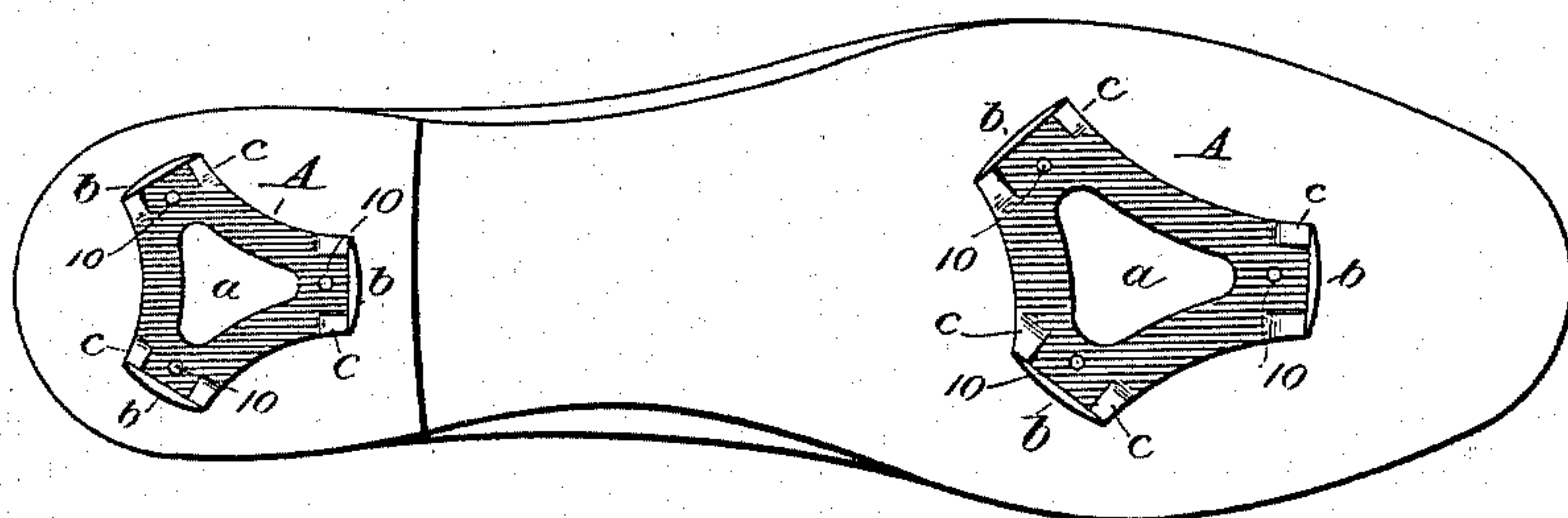


Fig. 2.

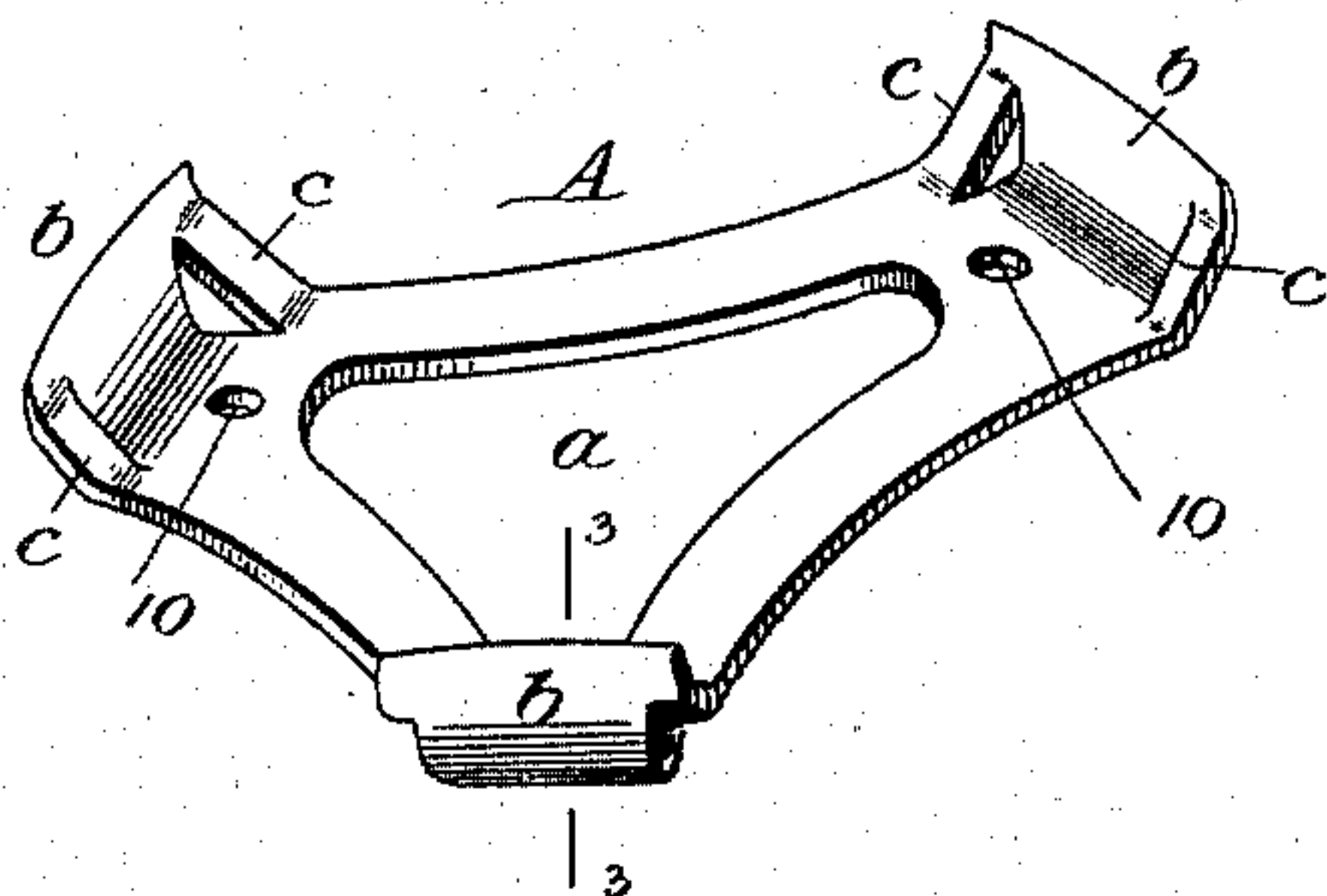
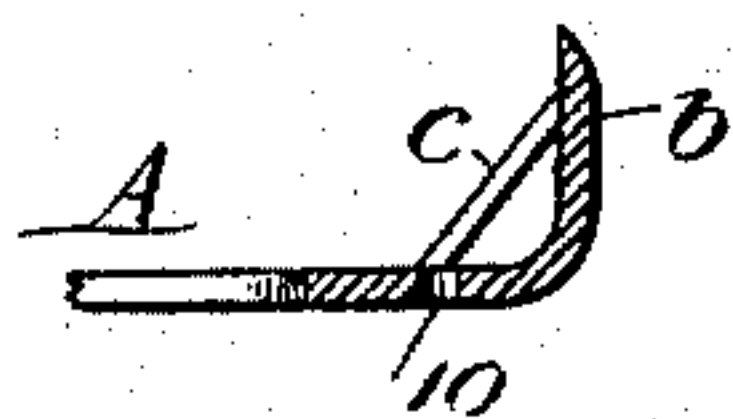


Fig. 3.



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UNITED STATES PATENT OFFICE.

WILLARD H. BUXTON, OF WORCESTER, ASSIGNOR TO THE LAMB MANUFACTURING COMPANY, OF CHICOPEE FALLS, MASSACHUSETTS.

SHEET-METAL SHOE PLATE OR SPIKE.

SPECIFICATION forming part of Letters Patent No. 527,403, dated October 16, 1894.

Application filed May 18, 1894. Serial No. 511,642. (No model.)

To all whom it may concern:

Be it known that I, WILLARD H. BUXTON, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Sheet-Metal Shoe Plates or Spikes, of which the following is a specification.

My invention relates to that class of sheet metal spikes or shoe-plates, which are secured to the sole of the shoe of the wearer, and which are now extensively used in athletic sports, as for instance, in playing base-ball; and the object of my invention is to provide a construction of spike, which may be easily constructed, and which shall be stronger and more durable than the spikes which are now ordinarily employed.

To these ends, my invention consists in the parts and combinations of parts as hereinafter described, and more particularly pointed out in the claims at the end of this specification.

In the accompanying drawings, Figure 1 is a bottom plan view of a shoe with my improved spikes or plates applied to the heel and sole of the same. Fig. 2 is a perspective view of a plate or spike constructed according to my invention, and Fig. 3 is a detail sectional view taken on the line 3—3 of Fig. 2.

In forming my improved shoe plate or spike, I form the same with a base or body portion A, which is preferably formed of sheet-steel, and may be stamped out or cut away as shown at *a*.

The body portion or base of my improved plate or spur is substantially triangular in shape, and the plates which are to be employed as toe-plates are preferably of somewhat irregular shape, as shown most clearly in Fig. 1, to conform to the outline of the shoe; that is to say, the plates are constructed as rights or lefts to conform to the curvature of the foot. The apices or corners of the triangular plate, which is thus constructed, are bent over substantially at right angles to the body portion of the plate, to form integral spurs or projections, as shown, and in the base-plate, near the spurs, I provide suitable

rivet holes 10 for securing the same to the shoe.

It has been found in practice, in the use of this class of devices, that the spurs or projections extending from the base-plate are liable to be bent or broken off in the use of the same, and the especial object of my invention is to provide a construction in which the spurs are stiffened or strengthened to resist the pressure which may be applied to them.

The construction which I preferably employ for accomplishing this purpose, is most clearly illustrated in Fig. 2, and, as shown in this figure, it will be seen that the sheet-metal blank is cut or slotted at each side of the spurs or projections, and when the spurs or projections B are bent into the desired shape, by use of suitable dies, the metal in the strips which are cut from the base A is upset or compressed, so that in the completed device, the spurs B are connected with the base A by means of integral strips or braces *c*. By means of this construction, it will be seen that I have provided a shoe-plate or spike in which the spurs are reinforced or braced so that they will not be bent or broken, and a serviceable and durable device may be constructed from much lighter stock or sheet-metal than has heretofore been employed.

I am aware that changes in the construction of the device can be adopted by those who are skilled in the art, the gist of my invention consisting in a shoe-plate or spike, and details of construction which I have shown and described.

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. In a sheet-metal device, the combination of a base or body portion, an integral projection extending from said base or body portion, and a reinforcing brace or strip formed by slitting the blank and upsetting the metal thereof, to form the brace, substantially as described.

2. In a sheet-metal device of the character described, the combination of a substantially triangular base or body portion A, having a central part cut away as at *a*, integral spurs

or projections *b* formed at the corners of said
body portion, and integral braces or rein-
forcing strips *c* connecting the spurs *b* with
the body *A*, said reinforcing strips being
5 formed by slitting the blank and upsetting
the metal to form the same, substantially as
described.

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

WILLARD H. BUXTON.

Witnesses:

PHILIP W. SOUTHGATE,
LOUIS W. SOUTHGATE.