

S. FRAUTSCHI, JR.
 ANTISLIPPING DEVICE FOR SHOES.
 APPLICATION FILED APR. 20, 1908.

905,510.

Patented Dec. 1, 1908.

Fig. 1.

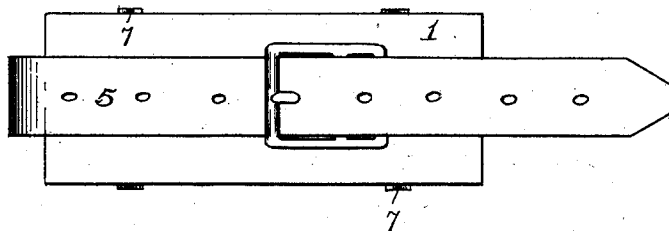


Fig. 2.

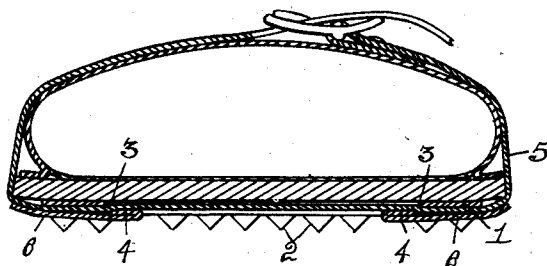


Fig. 3.

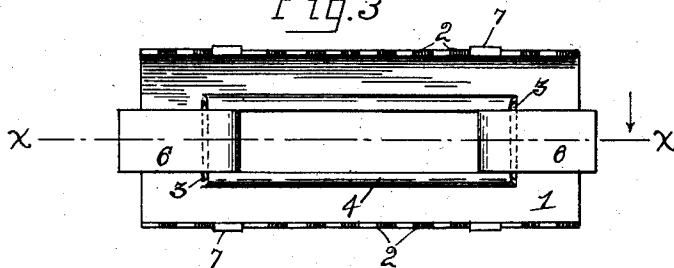
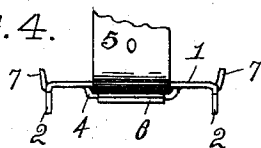


Fig. 4.



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UNITED STATES PATENT OFFICE.

SAMUEL FRAUTSCHI, JR., OF TOLEDO, OHIO.

ANTISLIPPING DEVICE FOR SHOES.

No. 905,510.

Specification of Letters Patent.

Patented Dec. 1, 1908.

Application filed April 20, 1908. Serial No. 428,207.

To all whom it may concern:

Be it known that I, SAMUEL FRAUTSCHI, Jr., a citizen of the United States, and resident of Toledo, in the county of Lucas and State of Ohio, have invented a certain new and useful Antislipping Device for Shoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to means adapted to be attached to the soles of shoes to prevent slipping when walking on ice, or for use by ball players, golfers or the like to prevent slipping when running or walking.

The object of my invention is the provision of an improved and highly efficient article of this class, which is adapted to be removably attached to the soles of shoes, is simple and cheap of manufacture, and strong and durable in its construction, and which is especially adapted for the protection of the strap employed to secure the device to a shoe, whereby to prolong the life of the strap and enhance the practicability and commercial value of the device.

The invention is fully described in the following specification and illustrated in the accompanying drawings, in which,—

Figure 1 is a top plan view of the device comprising my invention. Fig. 2 is a central longitudinal section thereof and the toe of a shoe to which it is attached. Fig. 3 is a bottom view thereof with the strap removed, and Fig. 4 is an end view thereof with a portion of the strap broken away.

Referring to the drawings, 1 designates an oblong rectangular plate of heavy sheet-metal which has its sides bent at right-angles in one direction relative to the body of the plate and notched or serrated to form the rows of laterally projecting teeth 2 at each side edge thereof.

The plate 1 is provided with transverse slits 3, 3 near its ends, and the portion thereof of intermediate said slits is drawn or pressed in the direction in which the teeth 2 extend to form the longitudinal depression 4 through which the strap 5, by means of which the plate is secured to the shoe, is inserted. It is apparent that this forms a very simple and efficient manner of securing the

strap to the plate without the use of rivets or the like, and also protects a considerable portion of the strap from wear.

If desired the depressed portion 4 may be transversely slitted at or near its center and longitudinally slitted near its side edges to near the ends thereof to form the tongues 6, 6, which may then be turned back closely upon the ends of the depressed portion with their ends projecting in opposite directions and under the exposed portions of the strap at the ends of the plate, as shown, thus forming guards for protecting the strap at the points where the greatest wear occurs when the plates are in use. This construction is especially important in connection with the spike or anti-slipping plates used by ball-players, runners or the like, in which cases pressure is applied more to the inner side of the shoe than the outer, thus causing the wear on the strap at the inner end of the plate to be much greater than on the outer.

In order to prevent the plate from slipping relative to the sole when in contact therewith it is provided on its top with a plurality of brads or spurs 7 for engaging the sole when clamped thereto. While these brads or spurs may be formed in any suitable manner, a simple and preferable manner of forming them is to turn up a few of the teeth as shown.

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

1. An article of the class described, comprising an oblong rectangular plate of sheet-metal having the side edges thereof bent at right angles and serrated to form teeth, said plate also having its body transversely slitted near the ends thereof and longitudinally depressed from slit to slit in the direction of projection of said teeth, and a retaining strap passed under the ends of the plate and through said slits to adapt it to lie in said depression.

2. An article of the class described, comprising an oblong rectangular plate of sheet-metal having the side edges thereof bent at right angles and serrated to form teeth and also being transversely slitted near the ends thereof and longitudinally depressed from slit to slit in the direction of projection of the teeth, and a strap extended through the slits and lying in the depression, the bottom of said depression being slitted to form tongues which are bent outwardly in op-

posite directions to form guards for protecting the lower exposed portions of the strap at the ends of the plate, substantially as described.

5 3. An article of the class described, comprising an oblong plate of sheet-metal having the side edges thereof bent at right angles and serrated to form teeth and also being transversely slitted near its ends and
10 longitudinally depressed from slit to slit in the direction of projection of the teeth, and a strap extended through the slits and lying in the depression, the bottom of said depression being slitted to form a tongue which is
15 bent outwardly upon said depressed bottom to adapt it to extend around an end portion of the plate to form a guard for the exposed portion of the strap at such end, substantially as described.

4. An article of the class described, comprising an oblong plate of sheet-metal having the side edges thereof bent at right angles to the plate and serrated to form teeth, a portion of which teeth are bent up to form sole-engaging spurs, said plate having
20 the portion intermediate the teeth transversely slitted near its ends and longitudinally depressed between said slits, and a strap passed through said slits and lying in said depression. 25

In testimony whereof, I have hereunto signed my name to this specification in the presence of two subscribing witnesses. 30

SAMUEL FRAUTSCHI, JR.

Witnesses:

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LOWELL SCHREIBER.