

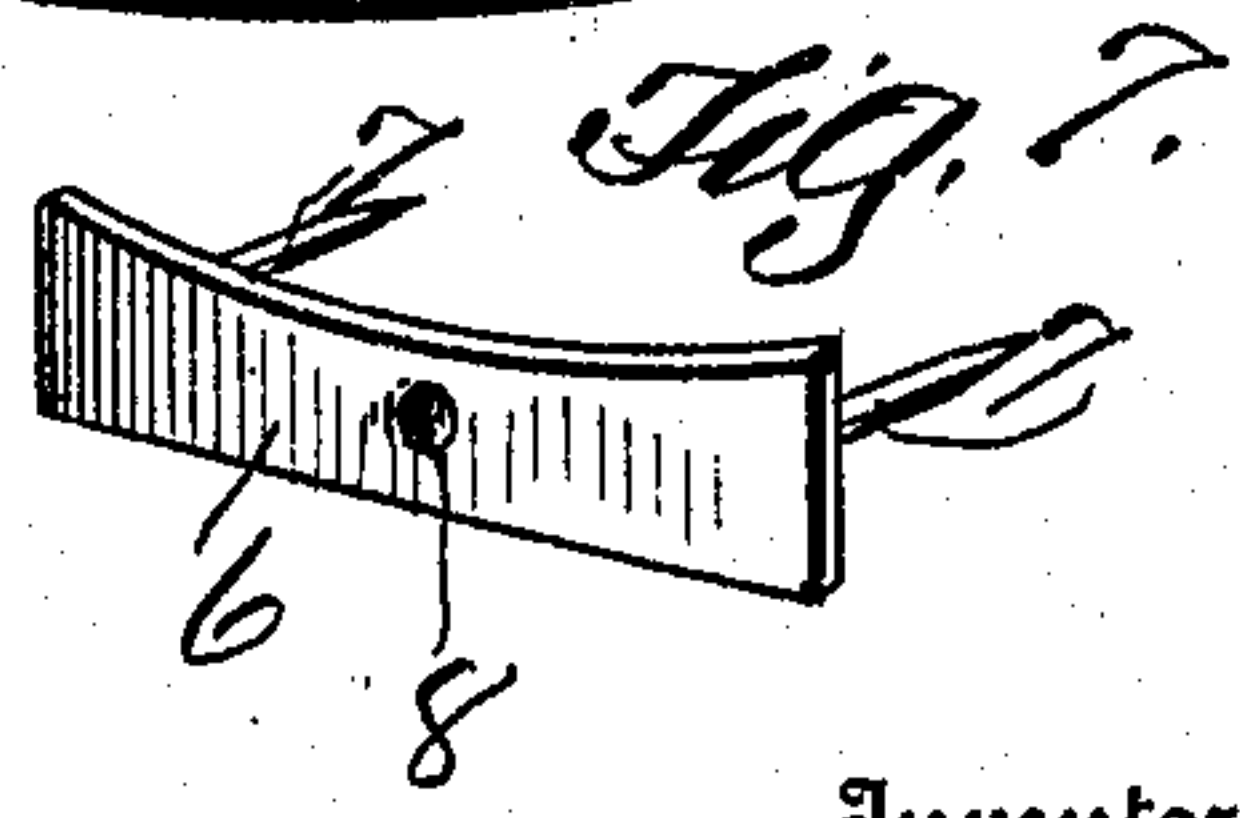
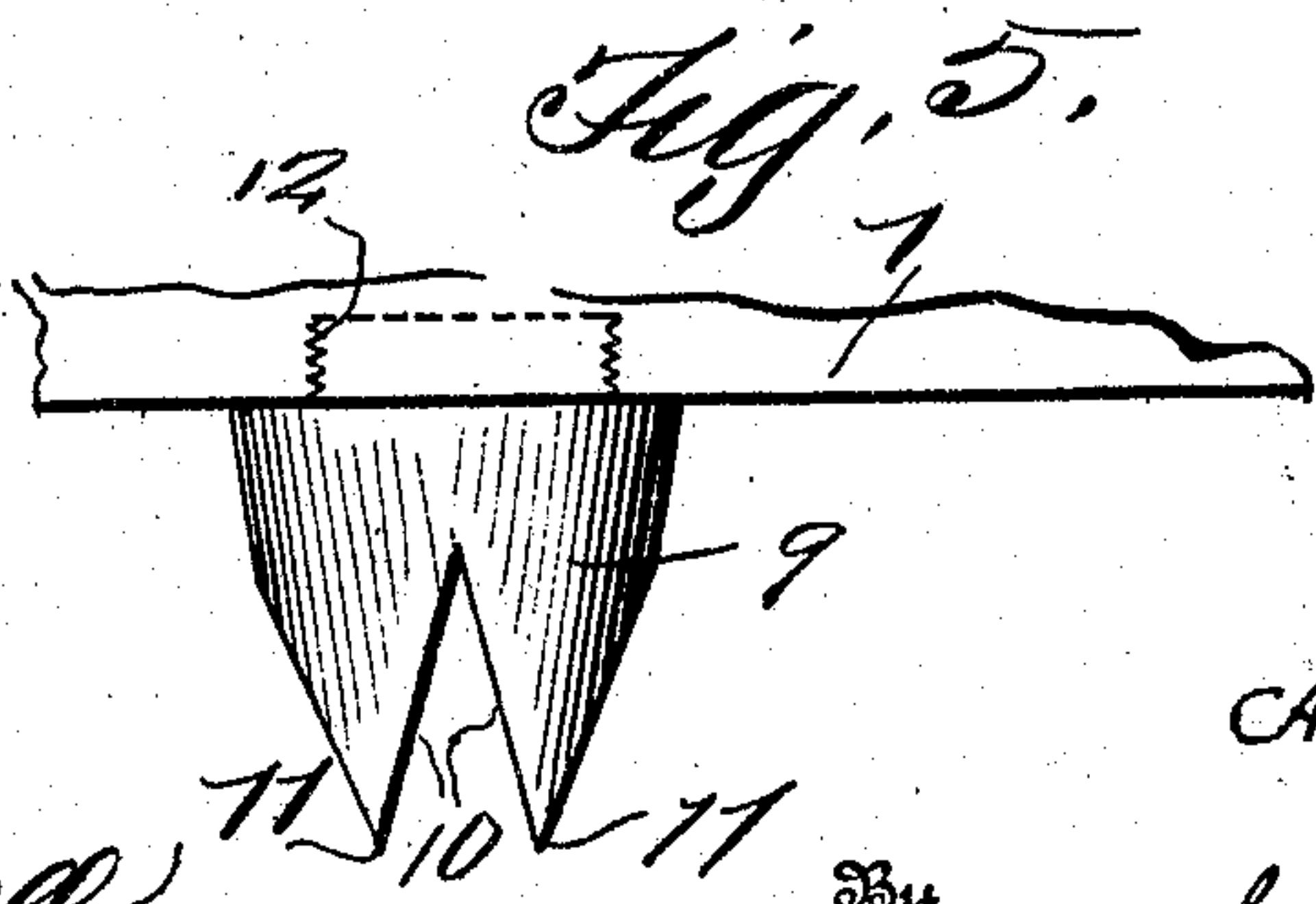
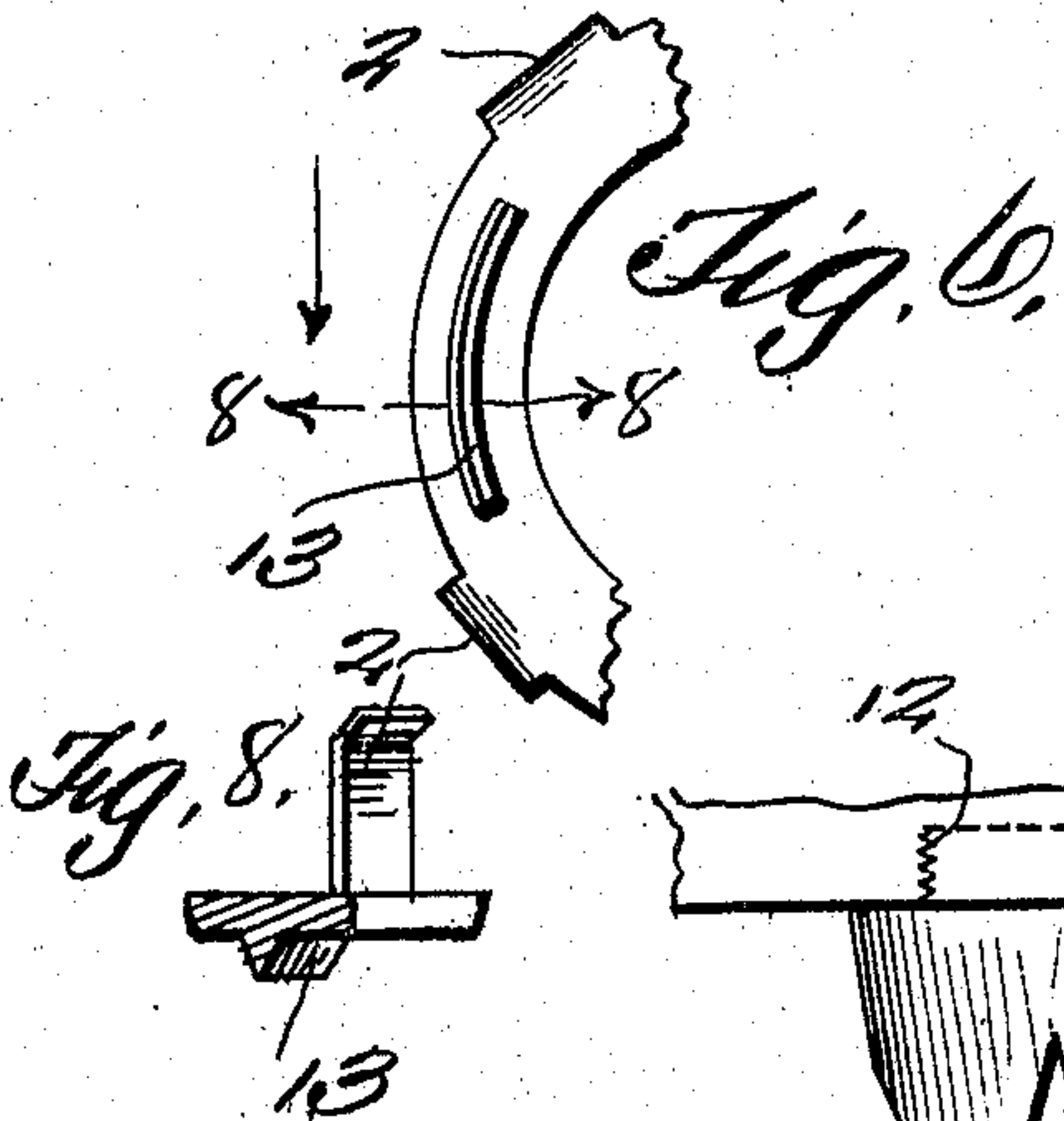
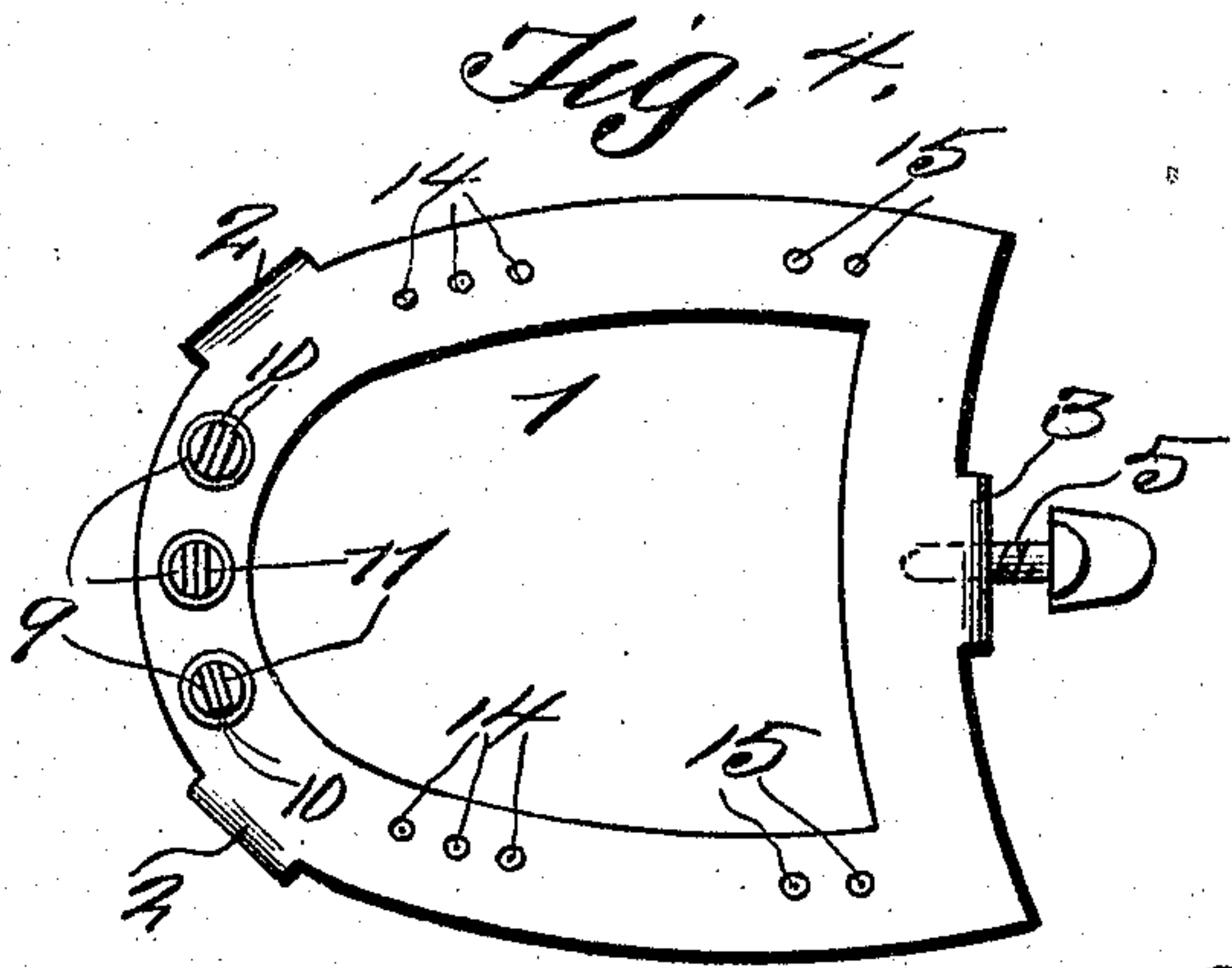
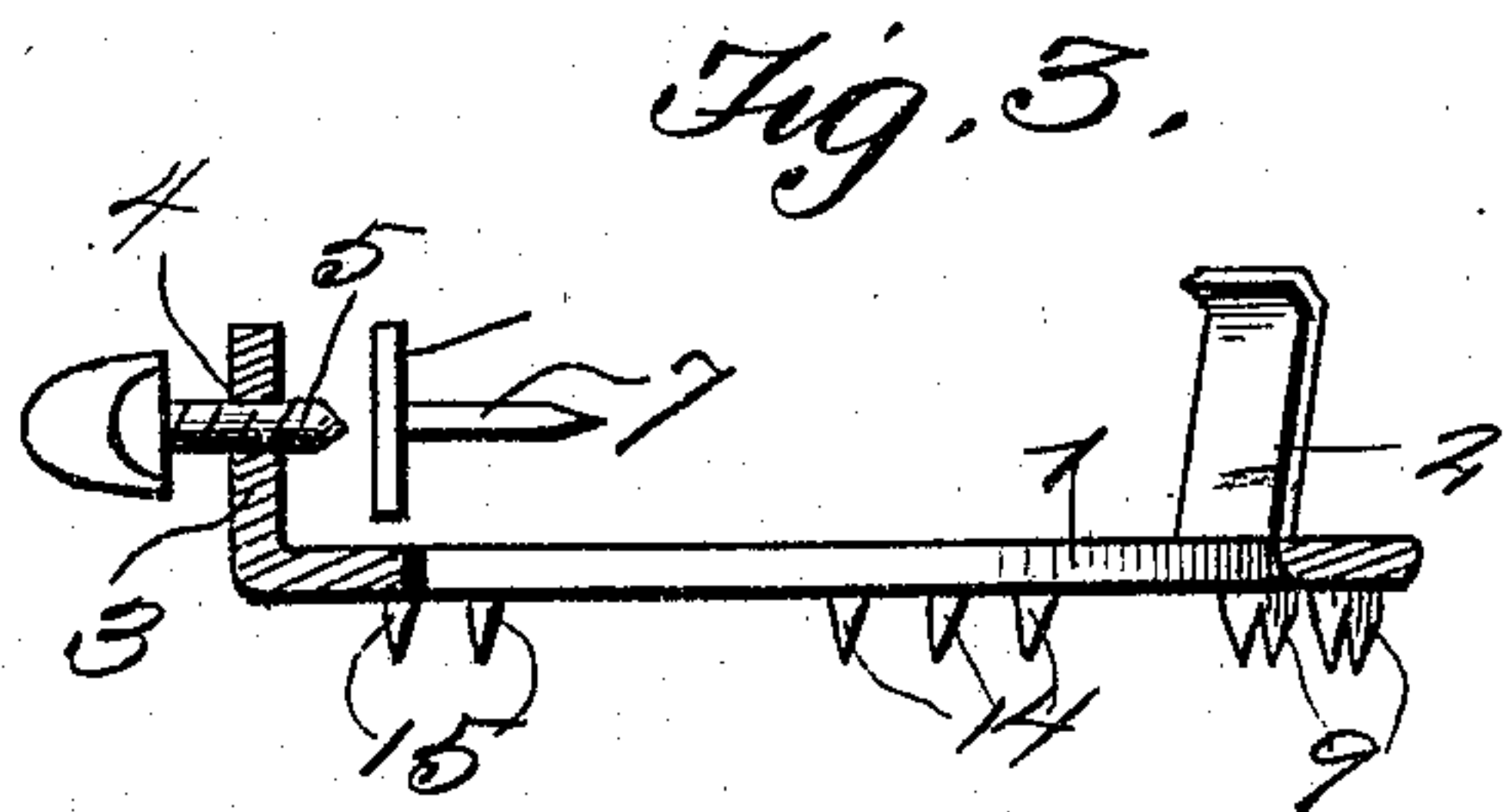
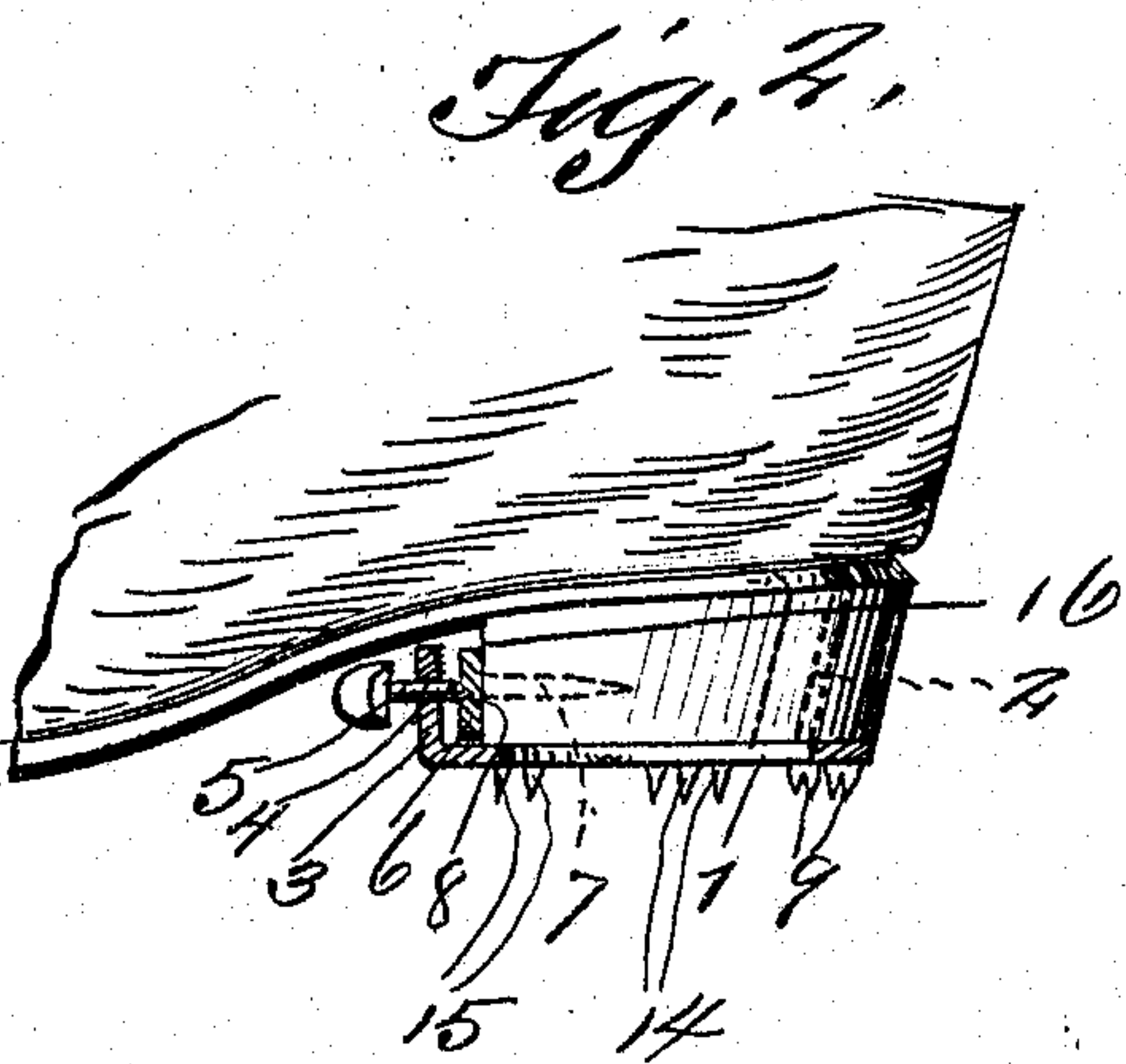
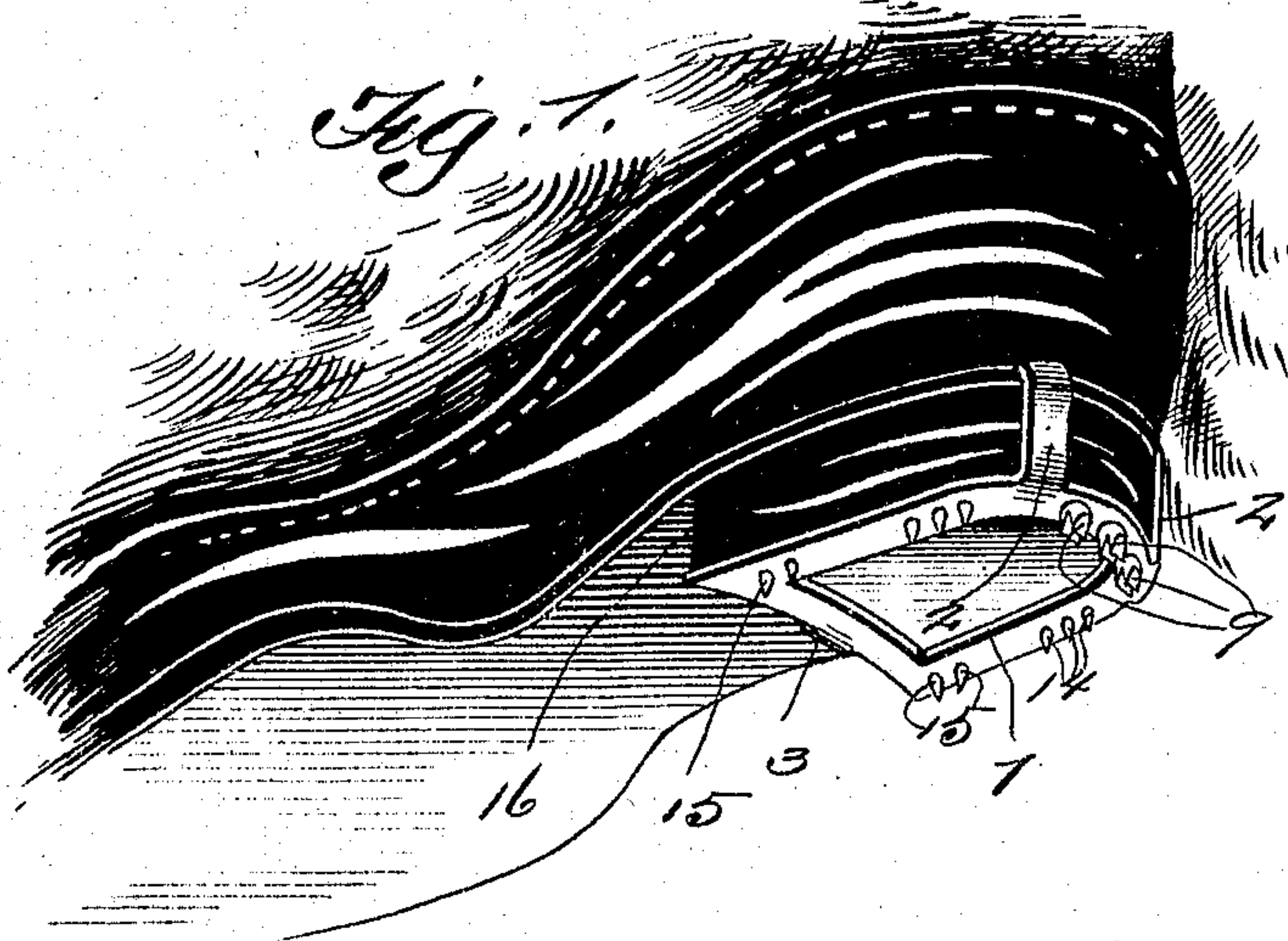
A. G. SECRIST.

ICE CREEPER.

APPLICATION FILED JULY 23, 1908.

908,040.

Patented Dec. 29, 1908.



Witnesses
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By

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UNITED STATES PATENT OFFICE.

ALBERT G. SECRIST, OF ROCHESTER, NEW YORK.

ICE-CREEPER.

No. 908,040.

Specification of Letters Patent.

Patented Dec. 29, 1908.

Application filed July 23, 1908. Serial No. 444,928.

To all whom it may concern:

Be it known that I, ALBERT G. SECRIST, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Ice-Creepers, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

This invention relates to certain new and useful improvements in ice creepers, or anti-slipping attachments to boots and shoes, and it has for its objects among others to provide a simple and cheap anti-slipping attachment that can be readily applied to ladies' as well as gentlemen's shoes and which shall be so constructed and applied as not to tear or catch into the leg of the trousers or the skirt, or wear the same, yet which shall be light and strong and capable of being clamped to the heel of the shoe solidly and tightly. The attaching means is disposed in front of the heel where it is out of the way and practically out of sight.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view showing the anti-slipping attachment as applied to the heel of a shoe. Fig. 2 shows the heel of the shoe in elevation, with the attachment shown in substantially central vertical longitudinal section. Fig. 3 is a substantially central vertical section from front to rear, with the plate that coöperates with the securing screw, in elevation. Fig. 4 is a bottom plan of the attachment. Fig. 5 is an enlarged detail showing the form of rear barb. Fig. 6 is a detail in bottom plan showing a modified form of barb. Fig. 7 is a perspective view of the screw-receiving plate, before being applied to the shoe. Fig. 8 is a cross section on the line 8—8 of Fig. 6.

Like numerals of reference indicate like parts throughout the several views.

Referring to the drawings 1 designates the body or frame of the device which may be of any suitable material, as metal, having the general contour of the heel of a boot or

shoe, as seen in Figs. 1 and 4. It is formed or provided with the upward extensions 2 at the rear, of a length to engage over the upper edge portion of the heel of the boot or shoe as seen in Fig. 1, the upper ends of these extensions being slightly curved inward as seen best in Fig. 1 to afford a better hold upon the leather of the heel as will be evident.

At the front the body or frame is provided with another upward extension 3 which is provided with a screw threaded hole 4 for the reception of the securing screw 5. This screw is designed to engage at its end against a plate 6, which is provided with one or more prongs or pins 7 which are engaged in the heel of the shoe at the front as seen in Fig. 2. This plate is designed to be permanently affixed to the heel of the shoe, and is shown as provided with a depression or the like 8 into which the end of the screw is seated.

The body or frame 1 is provided at the rear with points or barbs 9, which may be of any approved form, preferably as seen best in Fig. 5, where they are shown as conical and centrally bifurcated as at 10 with the two sides flattened to form the edges 11, 11. This gives a strong base portion which will stand the strain and wear, and the edges thus provided will engage in the ice or snow and serve effectually. These barbs may be integral with or separate from and secured to the body portion in any suitable manner; one way is indicated by dotted lines in Fig. 5, at 12.

In Figs. 6 and 8 I have shown a modified form of barb, the same being a narrow continuous strip of metal 13, slightly curved to conform to the curve of the heel portion of the body or frame; this barb may be integral with or secured to the body in any of the well known ways. The frame 1 is also shown as provided with pins 14 at the sides toward the rear and also with pins 15 at the sides, between the pins 14 and the front end, these pins being on the under face of the body and adapted to engage in the snow or ice and serve to assist in preventing slipping.

The pins, as well as the barbs 9 or 13, should be of some firm metal as steel, that will stand the wear to which they are subjected and may be of any desired length, dependent upon the service to which they are to be put.

In practice, the plate 6 is attached to the

front wall 16 of the heel of the boot or shoe by forcing its pins 7 into such wall, and then the frame is applied by placing it upon the bottom of the heel, the upper ends of the extensions 2 being engaged over the leather at the top of the heel, as seen in Fig. 1, and then the screw 5 is screwed up till the frame is securely fastened to the heel of the boot or shoe. It will be seen that the screw is located at the front of the heel and under the sole of the shoe in the space in front of the heel, where it is not only out of the way and where it will not wear or tear the skirts or trousers of the wearer, but also where it is practically hidden from view.

The attachment is readily adjusted to different sizes and shapes of heels and when once in position will be found most serviceable for the purposes for which it is intended, and fitting snugly to the heel it is not unsightly and not easily detached or broken.

What is claimed as new is;—

1. An ice creeper comprising a frame with extensions to engage at the top of the heel of the shoe at the rear, a barbed plate independent of said frame for engagement with the front wall of the heel, and securing means constructed to engage said plate and force it against the front wall of the heel beneath the sole, said frame being provided upon its under face with barbs.

2. An ice creeper comprising a frame having upward extensions with their upper ends curved inwardly to engage over the upper portion of a heel, barbs on the under side of the frame, and attaching means at the front end embodying an independent barbed plate to engage the front wall of the heel of a shoe.

3. An ice creeper comprising a frame having upward extensions to engage the rear of the heel of a shoe, barbs at the heel portion of said frame on its under face, pins at the front and sides on its under face and attaching means embodying a plate independent of the frame and constructed to engage the front wall of the heel of a shoe.

4. An ice creeper comprising a frame having upward extensions at the rear, attaching means at the front, depending barbs upon its under side, and a plate independent of said frame and having attaching means and a depression, and adapted to receive the end of the first named attaching means.

In witness whereof, I have hereunto set my hand this 18th day of July, 1908, in the presence of two subscribing witnesses.

ALBERT G. SECRIST.

Witnesses:

E. B. WHITMORE,
E. H. OLIVER.