

No. 748,490.

PATENTED DEC. 29, 1903.

T. FADDEN.
SHOE SOLE.

APPLICATION FILED MAR. 18, 1903.

NO MODEL.

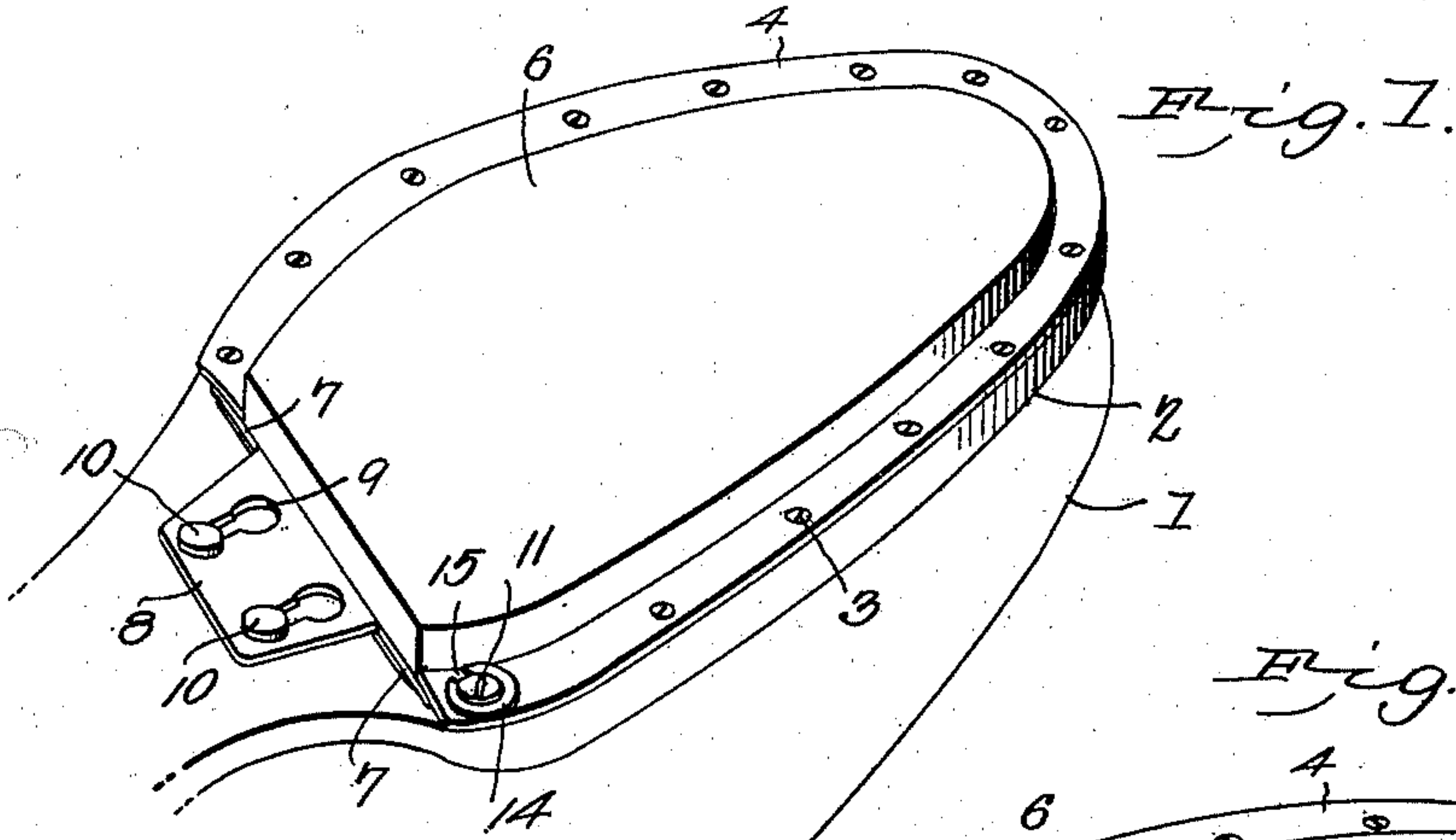


Fig. 1.

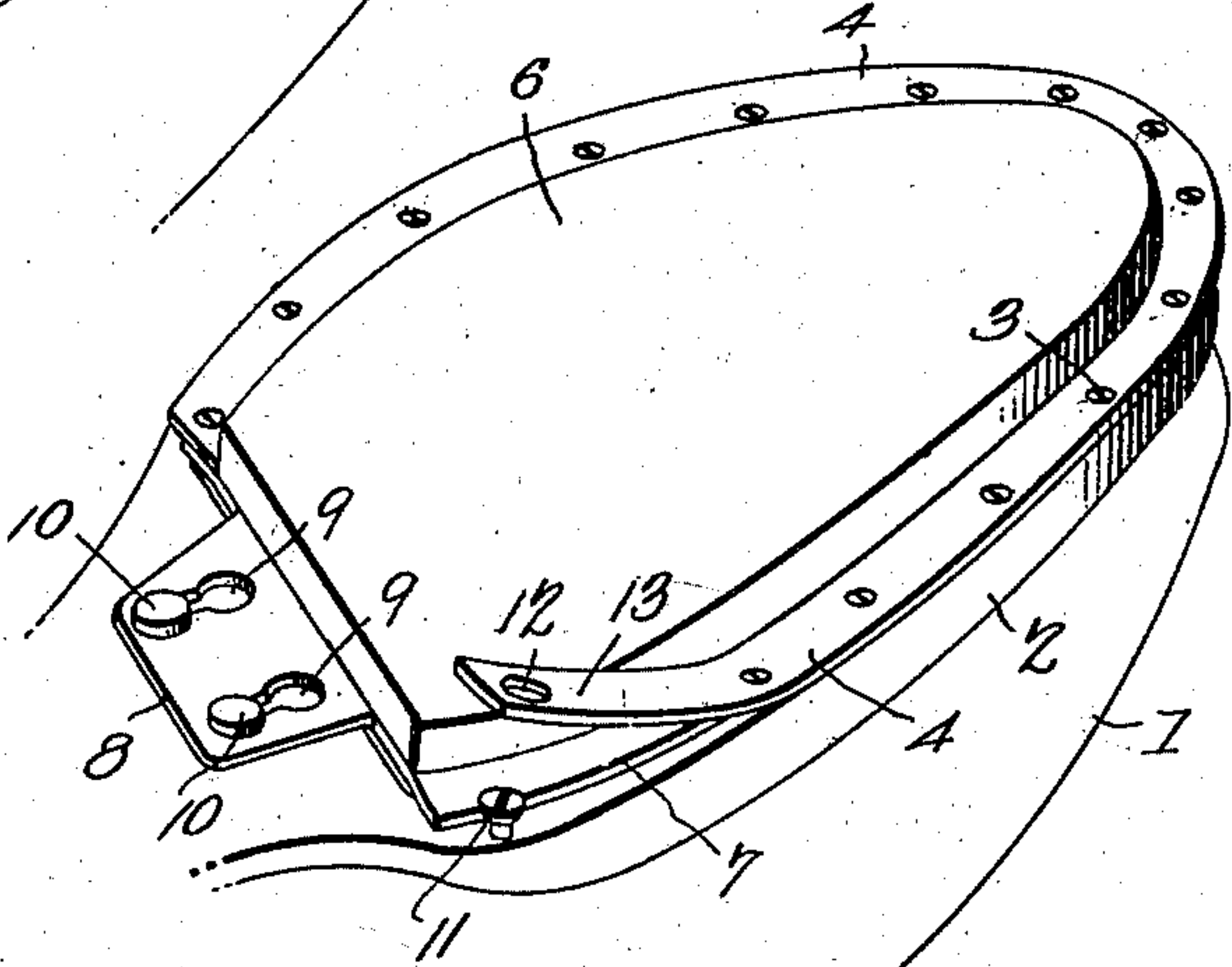


Fig. 2.

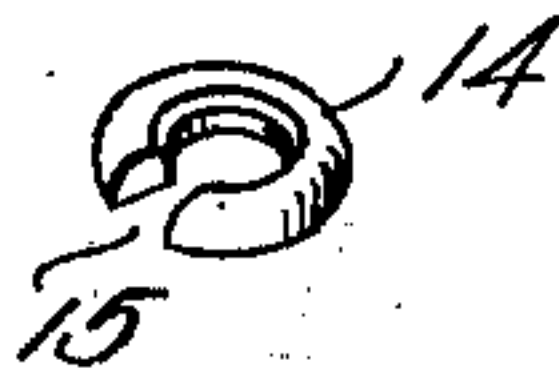


Fig. 3.

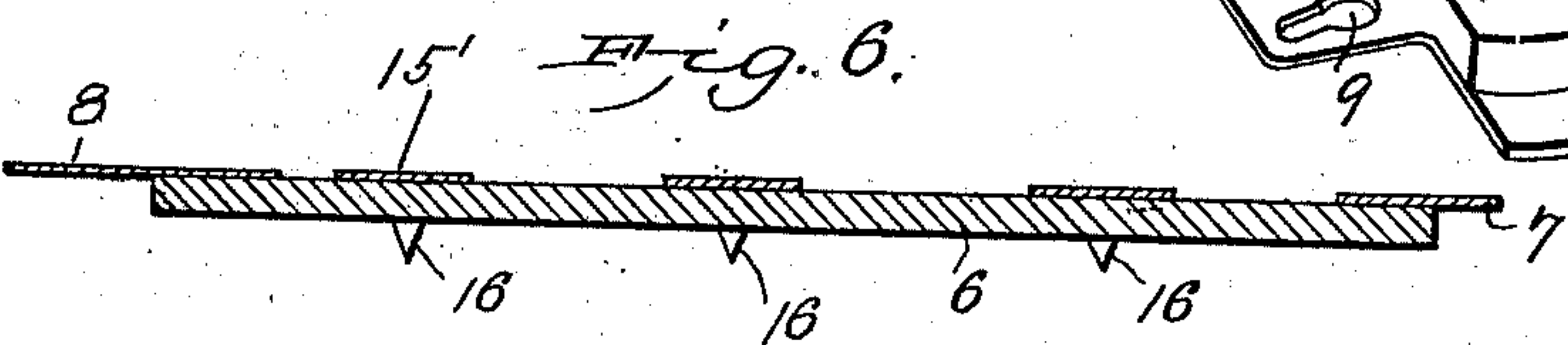
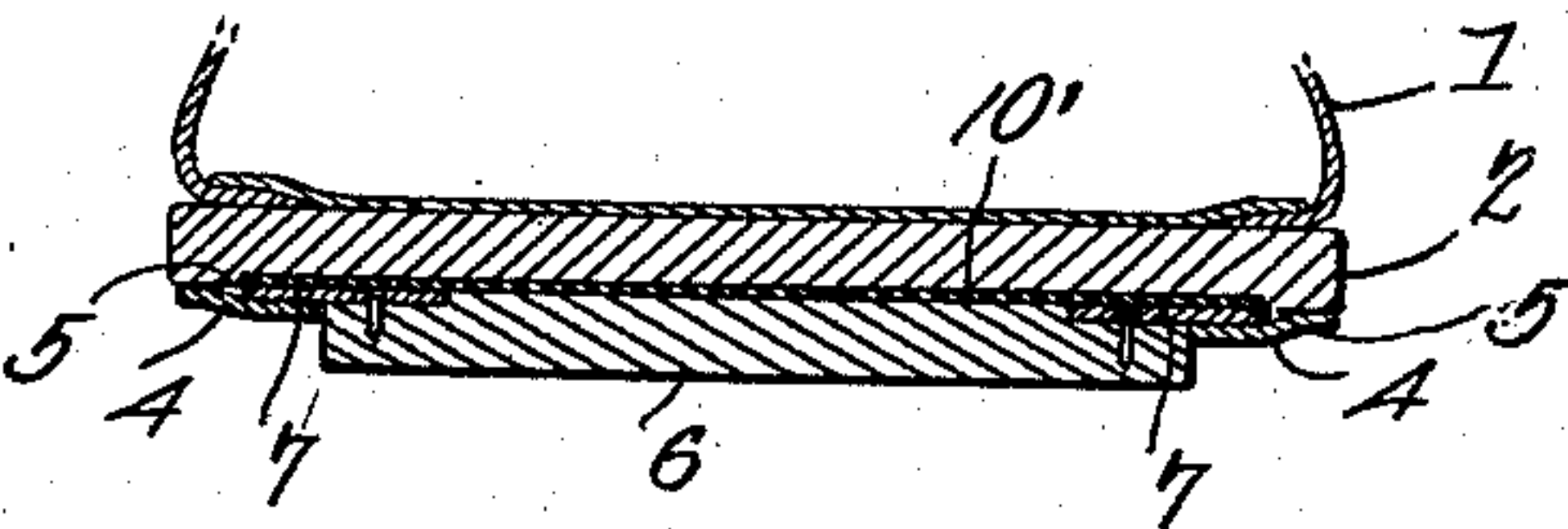


Fig. 4.

Fig. 5.

Witnesses
E. J. Stewart
L. J. Allen

Thomas Fadden, Inventor.
by C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

THOMAS FADDEN, OF WEST NASHVILLE, TENNESSEE.

SHOE-SOLE.

SPECIFICATION forming part of Letters Patent No. 748,490, dated December 29, 1903.

Application filed March 18, 1903. Serial No. 148,407. (No model.)

To all whom it may concern:

Be it known that I, THOMAS FADDEN, a citizen of the United States, residing at West Nashville, in the county of Davidson and State of Tennessee, have invented a new and useful Shoe-Sole, of which the following is a specification.

This invention relates to an improved detachable sole for boots, shoes, and the like, and has for its object to provide a durable, inexpensive, and efficient device of this character which may be easily and expeditiously applied to or detached from the shoe and by means of which the sole of the shoe when worn may be quickly renewed without the necessity of sewing, nailing, or otherwise permanently securing the sole to the vamp.

A further object of the invention is to provide a detachable sole which when applied does not detract from the general appearance of the shoe, which is impervious to moisture, and which possesses the requisite degree of flexibility necessary to the comfort of the wearer in walking.

A still further object is to provide a novel form of fastener for detachably securing the auxiliary sole in position on the shoe, thereby preventing accidental displacement of the sole.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a perspective view of a shoe, showing a detachable sole constructed in accordance with my invention applied thereto. Fig. 2 is a similar view showing the clamping device removed. Fig. 3 is a transverse sectional view of the same. Fig. 4 is a detail perspective view of the clamping disk or washer. Fig. 5 is a perspective view of a modified form of auxiliary sole, and Fig. 6 is a longitudinal sectional view of the same.

Similar numerals of reference indicate cor-

responding parts in all the figures of the drawings.

1 designates a shoe of the ordinary form and construction, to the sole 2 of which is secured in any suitable manner, as by screws 3 or similar fastening devices, a marginal strip or band 4, formed of steel, brass, or similar material possessing the requisite degree of flexibility, and defining a recess or pocket 5 for the reception of the auxiliary sole 6, as will be explained more fully hereinafter. The auxiliary sole 6, which may be formed of leather or other suitable material, is provided on its upper surface with a flexible marginal strip 7, secured thereto in any suitable manner, and this plate is adapted to fit within the pocket 5 when the sole is applied to the shoe, as clearly shown in Fig. 3 of the drawings. A plate 8, also formed of flexible material, is secured in any suitable manner to the rear end of the auxiliary sole 6, and this plate is provided with one or more keyhole-slots 9, adapted to engage pins, screws, or lugs 10, secured to the bottom of the sole 2 and by means of which the auxiliary sole is retained in position on the shoe. A layer of rubber 10' or other waterproof material is glued or otherwise secured to upper surface of the sole 6, rendering the sole of the shoe impervious to moisture. As a means for securely clamping the marginal plate 7 within the pocket 5, preventing the accidental displacement of the auxiliary sole in walking, I employ a clamping-screw 11, secured to the sole 2. The head of screw 11 passes through an enlarged opening 12, formed in the end 13 of the strip or band 4, and engages a disk or washer 14, provided with a cut-away portion 15 to permit the removal of said washer without withdrawing the screw. The end 13 of the strip 4 is not attached to the sole 2 other than by means of the screw 11 and washer 14, so that when said washer is removed the end of the strip 4 may be lifted up out of engagement with the marginal plate 7 to permit the easy removal of the auxiliary sole.

The construction of my device will be readily understood, and the operation thereof is as follows: When it is desired to renew the sole of the shoe, the auxiliary sole 6 is placed in position with the marginal plate 7 engag-

ing the pocket 5 and the enlarged opening of the keyhole-slots fitting over the pins or lugs 10. The sole is then forced forwardly by exerting a slight pressure on the rear end thereof, causing the plate 7 to fit snugly within the pocket 5 and the pins or lugs 10 to engage the constricted opening of the keyhole-slots, locking the sole to the shoe. The sole is clamped within the pocket 5 by passing the perforated end of the strip 4 over the screw 11, interposing the disk or washer between the head of the screw and the strip, and turning said screw, clamping the several parts together, as clearly shown in Fig. 1 of the drawings. The auxiliary sole may be removed at any time to permit the introduction of a new one by simply loosening the screw 11, which permits the removal of the washer, and the end of the strip 4 being now released the sole may be withdrawn by disengaging the pins 10 from the keyhole-slots.

In Fig. 5 I have shown a modified form of detachable sole. In this case one or more plates 15', provided with depending teeth or spurs 16, are attached to the upper surface of the sole 6, the teeth or spurs extending through the leather, as shown, and adapted to engage the ground and prevent slipping when walking on ice.

From the foregoing description it will be seen that I have provided an exceedingly economical, durable, and efficient auxiliary sole which may be quickly applied to or detached from the shoe—one which possesses the requisite degree of flexibility necessary to the comfort of the wearer and which may be securely clamped to the shoe, thereby preventing accidental displacement in walking.

The detachable soles may be made in various sizes and formed with or without the waterproof protecting-strip or depending spurs and being interchangeable may be easily detached and replaced by one suitable to the occasion.

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

1. A device of the class described, comprising a shoe, a marginal retaining-plate secured to the sole thereof, and having a free and yieldable terminal portion a detachable auxiliary sole provided with a corresponding marginal flange adapted to engage said retaining-plate and a clamping member secured to the shoe and adapted to engage the terminal por-

tion of the retaining-plate and lock the parts together.

2. A device of the class described, comprising a shoe, a marginal retaining-plate secured to the sole thereof, and having a free and yieldable terminal portion, a detachable auxiliary sole having a waterproof upper surface and provided with a corresponding marginal flange adapted to engage the retaining-plate, and a clamping member secured to the shoe and passing through the terminal portion of the retaining-plate and serving to lock the parts together.

3. A device of the class described, comprising a shoe, a flexible marginal retaining-plate secured to the sole thereof, a detachable auxiliary sole provided with a corresponding flexible marginal flange adapted to engage the retaining-plate, one end of the retaining-plate being detachably secured to the sole and provided with an opening for the reception of a clamping means.

4. A device of the class described, comprising a shoe, a marginal retaining-plate secured to the sole thereof, and having a free and yieldable terminal portion, pins or lugs secured to said sole, a detachable auxiliary sole provided with a corresponding marginal flange adapted to engage the retaining-plate, a plate provided with keyhole-slots adapted to engage the pins or lugs, and a clamping member secured to the shoe and passing through the terminal portion of the retaining-plate for locking the parts together.

5. A device of the class described, comprising a shoe, a flexible marginal retaining-plate, secured to the sole thereof and having a free and yieldable terminal portion, a detachable auxiliary sole provided with a corresponding flexible marginal plate adapted to engage the retaining-plate, interlocking members carried by the sole of the shoe and the auxiliary sole, a clamping-screw secured to the sole of the shoe and passing through an opening in the terminal portion of the retaining-plate, and a disk or washer removably carried by the screw and adapted to bear against the end of the retaining-plate for locking the parts together.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS FADDEN.

Witnesses:

JNO. J. CHERRY,
W. J. JOHNSON.