

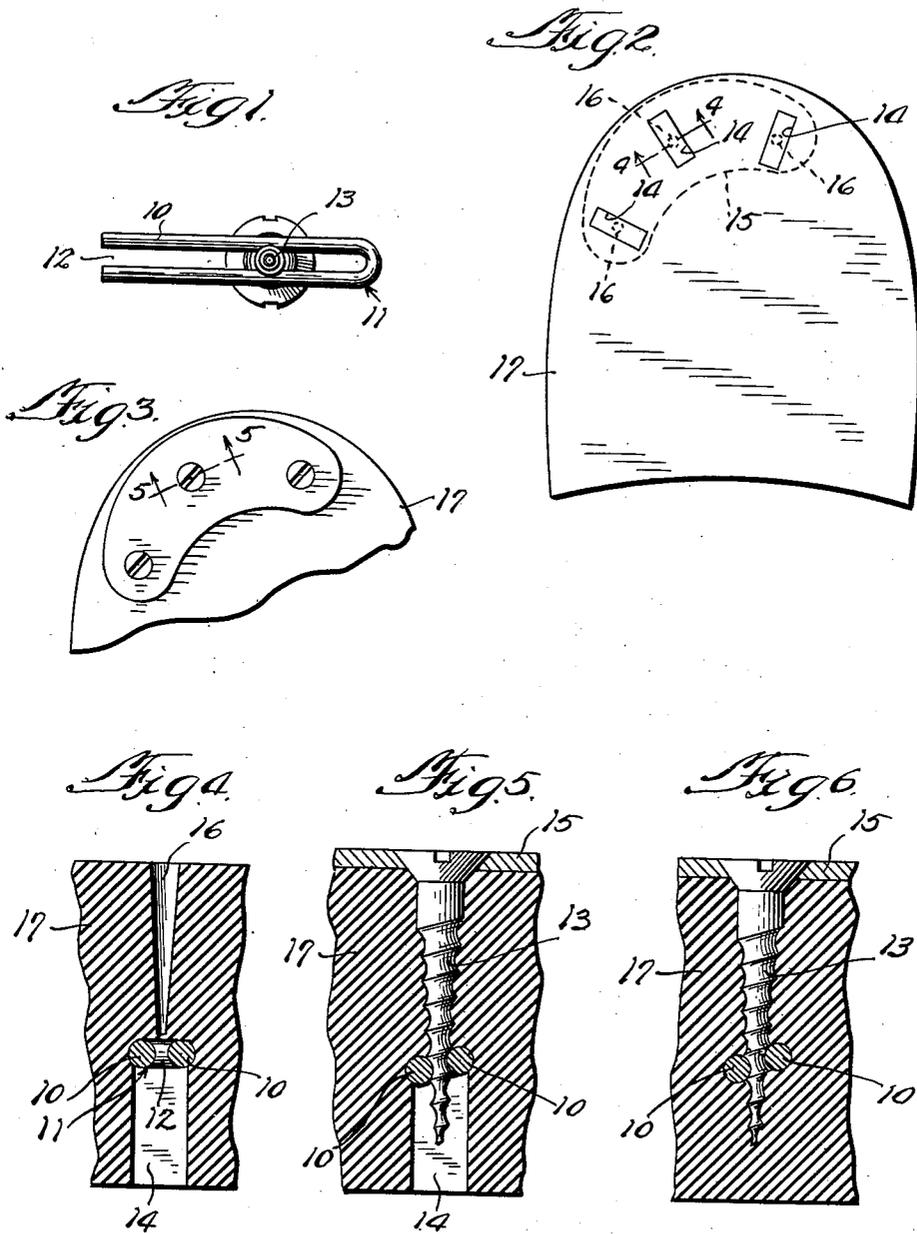
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J. H. BUECHLER

2,548,194

RUBBER HEEL

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*John H. Buechler*

INVENTOR.

# UNITED STATES PATENT OFFICE

2,548,194

RUBBER HEEL

John H. Buechler, Chicago, Ill.

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1 Claim. (Cl. 36—35)

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This invention relates to improvements in a rubber heel having a removable heel plate.

The object of the invention is to provide a fastening means for removably retaining a heel plate on a soft rubber heel. The plate has countersunk holes for receiving screws forming the fastening means.

The object is obtained in the manner described in the following specification and drawings in which:

Figure 1 is a top plan view of a wire retaining member engaging a securing screw;

Figure 2 is a top view of the soft rubber heel showing the position of the cavities;

Figure 3 is a plan view showing the heel plate held in position by the screws;

Figure 4 is a section taken on the line 4—4 of Figure 2;

Figure 5 is a section taken on the line 5—5 of Figure 3 showing a screw in position;

Figure 6 is a view similar to Figure 5, showing a modification.

In Figure 1, 10 are the legs of a U-shaped wire retaining member 11. The space 12 between the legs 10 is of sufficient size to receive the tip of screw 13. The legs will engage the threads on the screw and be spread by the screw as it is rotated, thus locking the screw in place.

In Figure 2, the position of the heel plate 15 is shown in dotted lines, and 14 indicates rectangularly shaped cavities in the top surface of the soft rubber heel 17.

In Figure 3, the heel plate is shown screwed to the bottom surface of the rubber heel.

In Figure 4, 16 is a screw guiding hole in the bottom of the heel, and 14 is one of the aforementioned rectangular cavities in the top of the heel.

In operation the wire retaining members 11 are

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inserted in cavities 14 under compression, so that upon release their natural spring will retain them in place. Next the plate is positioned on the bottom of the heel and the screws are inserted through countersunk holes in the plate, into holes 16 in the heel. The screws are then screwed into the heel cavities 14, thus passing between the legs of the wire retaining member 11, which member acts as a lock. It is to be noted that the screws are of less length than the thickness of the rubber heel, so as not to impair the cushioning effect of the soft rubber heel.

In the modification shown in Figure 6 the cavities 14 are omitted and the wire retaining members 11 are embedded in the soft rubber heel.

I claim:

A rubber heel having holes formed in its wear face adapted to have screws inserted therein, and cavities formed in its upper face, the walls of each cavity retaining a U-shaped wire member in fixed position, the two legs of the said wire member being adapted to engage the threads on opposite sides of a tapered screw member for retaining a heel plate on the rubber heel, said holes being aligned with the space between the two legs of said wire member.

JOHN H. BUECHLER.

## REFERENCES CITED

The following references are of record in the file of this patent:

### UNITED STATES PATENTS

Number	Name	Date
341,347	Pierce	May 4, 1886
937,535	Kempton	Oct. 19, 1909
1,131,568	Smith	Mar. 9, 1915
1,491,550	Ross	Apr. 22, 1924