

Dec. 26, 1922.

1,439,757

F. REDMAN.  
SHOE HEEL.  
FILED NOV. 18, 1921.

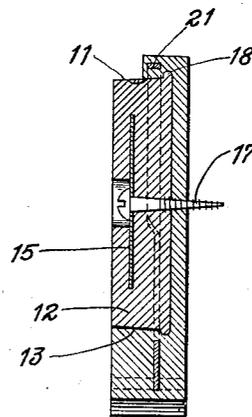
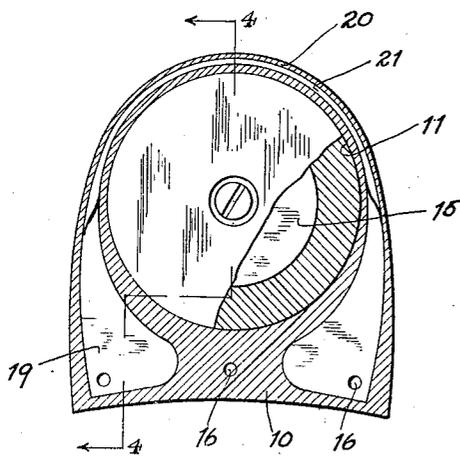
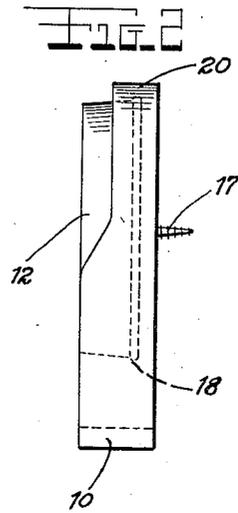
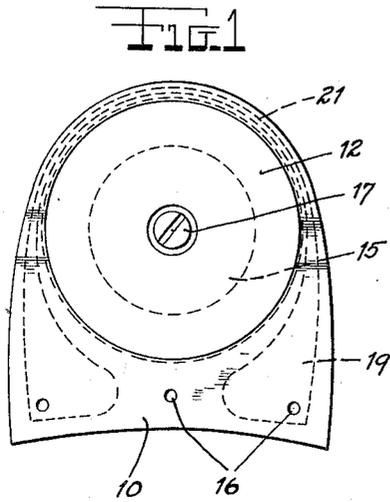


FIG. 3

FIG. 4

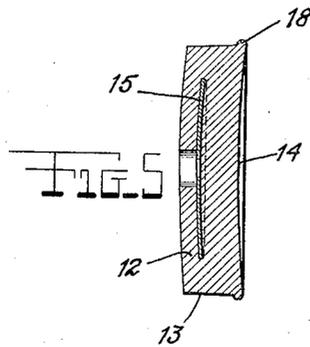


FIG. 5

INVENTOR  
F. Redman.  
BY *F. Redman*  
ATTORNEY

# UNITED STATES PATENT OFFICE.

FRANK REDMAN, OF NEW YORK, N. Y.

## SHOE HEEL.

Application filed November 18, 1921. Serial No. 516,201.

*To all whom it may concern:*

Be it known that I, FRANK REDMAN, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Shoe Heels, of which the following is a specification.

This invention relates to shoe heels and has particular reference to that type known as cushion heels, the main object being to provide means for renewing the wearing surface at the extreme rear end of the heel, thereby eliminating the necessity of discarding the heel when said rear end has been rounded or worn down.

Another object is to provide a heel having a reinforcing member imbedded within the heel, serving to give the wearer a greater security in treading over smooth or slippery surfaces, due to the greater rigidity imparted by the said plate.

Still another object is to provide a means for securing the body to a heel in such a way that the cushion heel is continuously drawn into closer contact with the main body.

These and other objects will become apparent in the description below in which similar characters of reference refer to the like named parts in the drawing, in which

Figure 1 represents a plan view of the heel as it appears when looking down upon the wearing surface.

Figure 2 is a side elevation of the same.

Figure 3 is a plan view similar to Figure 1 showing the several members in fragmentary section.

Figure 4 is a longitudinal cross section taken on the line 4—4 of Figure 3.

Figure 5 is a cross section taken centrally thru the rotatable tread disc.

Referring more in detail to the drawing, the numeral 10 represents the main body of the heel and is preferably made of tough flexible rubber. An annular recess 11 is formed in the wear surface and into which is inserted a similarly shaped disc 12 having

a conically-surfaced periphery 13. The disc 12 when detached from the heel is slightly dished as indicated at 14, by the tension of the cupped metal washer 15. The main body 10 is fitted to the shoe by means of nails which pass thru holes 16 at the forward end, and the screw 17 shouldering on cupped washer 15 will draw the disc and rear end down upon the shoe heel.

An extending rim having a rounded edge 18 at the largest end of the disc 12, engages a corresponding groove in the body 10 serving to retain the entire heel as a unit.

A rigid, metallic plate 19 of loop-shaped outline is moulded within the main body and where passing thru the rear end wall 20, is twisted into right angles forming a reinforcing band 21 at the rear end to retain the shape and keep to its original form the groove and recess 11.

The rear end of the main body is reduced in the thickness so that the disc 12 will present that part of its surface, extending from the center to the edge, for wearing of same.

From the foregoing it is apparent that, after the exposed surface of the disc 12 has been worn down, renewal of the treading surface is made by rotating the disc into a new position.

I claim:

A flexible heel for shoes comprising a relatively hard rubber base reduced at the rear to approximately two-thirds its thickness and containing a circular recess having bevelled walls terminating in an annular groove, a metal plate incorporated in said rubber base, said plate presenting flat surfaces parallel to the side of the base at the front corners, said plate being reduced in width and turned at a right angle to form a band interjacent the exterior and recess at the rear, a re-enforced rubber plate rotatably engaged in said recess, said plate being softer than said base and means for securing said plate and base to a shoe heel.

In witness whereof I affix my signature.

FRANK REDMAN.