Aug. 30, 1927. 1,640,686

H. N. ATWOOD

SHOE HEEL

Filed Feb. 19, 1925

Fig. 1.

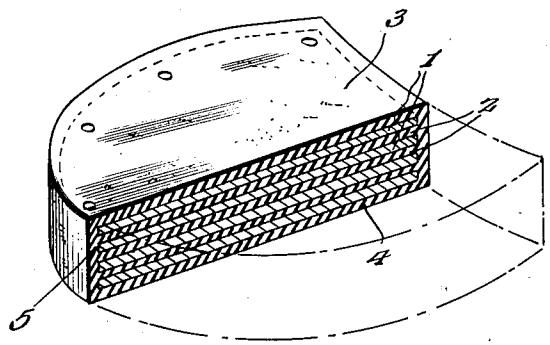
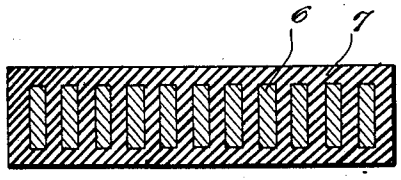


Fig. 2.



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UNITED STATES PATENT OFFICE.

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SHOE HEEL.

Application filed February 19, 1925. Serial No. 10,434.

This invention relates to improvements in composition shoe heels of the cushion type and has as one of its objects to provide a shoe heel which will be substantially as elastic and yieldable as the ordinary rubber heel but will be more substantial and more durable and be capable of being more firmly secured to the shoe than is the ordinary rubber heel.

Another object of the invention is to so construct the heel that it will possess exceptional wearing qualities, insuring of its usefulness throughout the entire life of the shoe to which it is applied.

Another object of the invention is to so construct the heel that it will possess the full degree of anti-slipping qualities throughout its entire life and therefore will not require to be replaced at frequent intervals as is the case with ordinary rubber heels.

In the accompanying drawing:

Figure 1 is a sectional perspective view illustrating a shoe heel constructed in accordance with the present invention;

Figure 2 is a vertical front to rear sectional view through a modified form of heel.

In that form of the invention shown in Figure 1 of the drawing, the heel comprises a plurality of plies 1 which are of veneer and which have the same general marginal contour as the heel considered as a whole although of dimensions somewhat less than the marginal dimensions of the complete heel. Interposed between the plies 1 are plies 2 of soft rubber, and a facing ply 3 covers the uppermost veneer ply 1, and a facing ply 4 covers the under side of the lowermost veneer ply, the periphery of the heel comprising a ply 5 likewise of rubber. In the course of manufacture of the heel, the various plies are assembled, and the assemblage is then subjected to a process of vulcanization whereby all of the rubber plies will become an integral whole, and the veneer plies will be permanently embedded. In effect, therefore, the heel shown in Figure 1 comprises a body of soft rubber in which are embedded one or more plies of veneer, the veneer plies having substantially the same marginal contour as the heel considered as a whole.

In that form of the invention shown in Figure 2 of the drawings, the structure is assembled in substantially the same manner as the structure shown in Figure 1 except that in this case, instead of veneer plies, strips 6 of veneer are disposed in perpendicular planes within the soft rubber body 7 of the heel in spaced relation to one another and with their upper and lower edges respectively spaced from the upper and under sides of the body of the heel. The strips 6 of veneer may run in a direction from front to rear of the heel or they may run transversely, either as found desirable. Likewise it will be evident that the strips might be made of arcuate form so as to conform more or less closely to the curvature of the breast and rear side of the heel body. In this construction it is evident that after the rubber facing at the under side of the heel has become worn away, the edges of the strip 6 will be exposed and will constitute an exceptionally durable wear medium thereby greatly prolonging the life of the heel.

Having thus described the invention, what is claimed as new is:

1. A shoe heel comprising a body of vulcanized rubber, and spaced plies of veneer embedded therein prior to vulcanizing, the rubber of the body extending entirely about and between the plies of veneer.

2. A shoe heel comprising a body of vulcanized rubber, and strips of veneer embedded in the body in spaced relation to each other and occupying planes perpendicular to the tread face of the body, the rubber of the body extending entirely about and between the strips of veneer.

In testimony whereof I affix my signature.

HARRY N. ATWOOD. [L. S.]