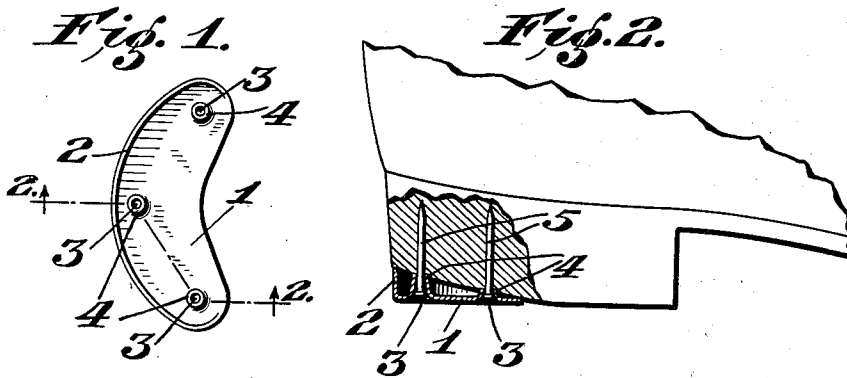
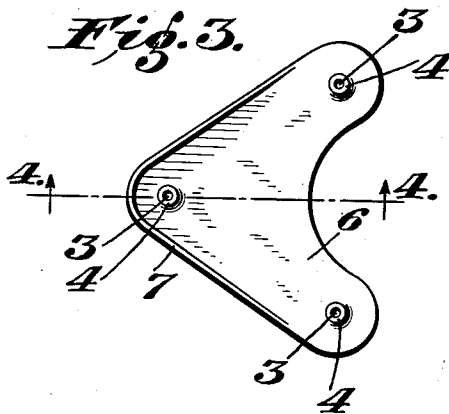
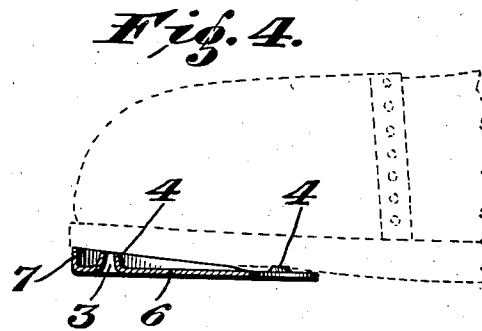


L. WEINSTEIN.  
WEAR PLATE FOR THE SOLES OF SHOES AND THE LIKE.  
APPLICATION FILED APR. 23, 1917.

1,245,647.

Patented Nov. 6, 1917.



**Inventor:**  
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# UNITED STATES PATENT OFFICE.

LEON WEINSTEIN, OF ST. LOUIS, MISSOURI.

WEAR-PLATE FOR THE SOLES OF SHOES AND THE LIKE.

1,245,647.

Specification of Letters Patent. Patented Nov. 6, 1917.

Application filed April 23, 1917. Serial No. 163,900.

*To all whom it may concern:*

Be it known that I, LEON WEINSTEIN, a subject of the King of Roumania, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Wear-Plates for the Soles of Shoes and the like, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

This invention relates to a certain new and useful improvement in wear-plates for the soles of shoes and the like.

My present invention has for its objects to provide a novel construction in a device of this character which may be embodied in either a heel-plate or a toe-plate, and more particularly for application to shoes and the like that have been worn; to provide a construction which will permit considerable wearing away of the tread portion of the plate without affecting the securing nails or the like so as to insure the retention of the plate throughout the period of its usefulness, and facilitate the ready removal thereof, should occasion require; and to attain certain other advantages which will hereinafter more fully appear.

With the above and other objects in view, the invention resides in certain novel features of form, arrangement, construction, and combination of parts hereinafter described and claimed.

In the accompanying drawing, illustrating practical adaptations of my invention,—

Figure 1 is a plan view of a heel-plate constructed according to, and embodying, the invention:

Fig. 2 is a fragmentary view of the heel-portion of a shoe, the heel being shown as worn off at the rear and the wear-plate applied thereto, the plate being shown in section on the line 2—2, Fig. 1;

Fig. 3 is a plan view of a toe-plate also constructed according to, and embodying, the invention, and

Fig. 4 is a section of the toe-plate on the line 4—4, Fig. 3, and a fragmentary view of the toe portion of a shoe, illustrating how the plate is applied thereto, the shoe being shown in dotted lines.

The general construction of the heel-plate and the toe-plate, excepting the outlines thereof to accommodate them to their respective locations on the shoe-sole, is the same, that is to say, the relative arrange-

ment of the tread portion with the marginal flange and embossments thereof, as will be presently described, is such that the structure is tapered or wedge-like, whereby to fit upon and build up the worn-off portions of the heel or toe of the shoe-sole, as the case may be.

Referring now more particularly to Figs. 1 and 2 of the drawing, the heel-plate therein shown comprises a tread-portion or plate 1, one edge of which is rounded to conform to the curvature of the back of the heel and the other edge is recessed, as is the usual practice in devices of this kind.

Extending around the curved marginal portion of the plate is an upstanding flange 2, which is highest at its middle and inclines or tapers toward the ends of the plate, where it disappears. The plate is perforated, as at 3, about the middle thereof and in proximity to the flange 2, and also near its ends. The metal of the plate is struck up or otherwise extended to form annular flanges or embossments 4 around these perforations 3.

The embossments 4 are tapered so that the openings at the top thereof correspond to the size of the nails 5 (shown in Fig. 2) or other like or suitable securing elements which may obviously be employed, and they are flared downwardly or widened at the base to receive the heads of the nails 5 or other securing elements, as the case may be, so that the nail-heads may be countersunk below the outer face of the plate 1.

The respective embossments 4 extend above the plate 1 at different heights corresponding to their positions with respect to the flange 2, in order to preserve the general wedge-shape of the device according to the taper of said flange, said embossments, as well as the flange, being in contact with the surface of the heel when the plate 1 is applied to the shoe.

The toe-plate, shown in Figs. 3 and 4, comprises a tread portion or plate 6 which, preferably, is substantially V-shape, as in the ordinary construction. Extending about the rounded end and diverging side marginal portions of the plate is an upstanding flange 7 which is inclined or tapered, similar to the flange 2 of the heel-plate 1. In this construction, as shown, the flange 7 terminates some distance short of the extreme end portions of the plate, whereas in the former the flange 2 extends well up to the ends. The termination of the flanges 2 and

7 in both constructions will, however, vary  
in many instances, as it is possible to make  
the respective devices in different sizes and  
of different proportions to suit the bevel or  
5 angularity of the worn-off portion of the  
particular heel or toe of the shoe sole. Ob-  
viously, therefore, the invention is not lim-  
ited to the precise construction and arrange-  
ment shown in the drawing, but considerable  
10 modification is contemplated within the  
terms of the appended claims.

By the employment of such a construc-  
tion as herein shown and described, the  
heads of the nails or equivalent securing  
15 elements are located inward from the wear-  
ing face of the plate. Hence the plate may  
be worn almost entirely away without the  
heads of said securing elements being ap-  
preciably worn. Therefore, the plate is re-  
20 tained in place upon the shoe or the like  
throughout the period of its usefulness, and  
should it be desired to remove the plate,  
this may be readily accomplished, as the  
normal condition of the securing elements  
25 is preserved sufficiently to afford secure en-  
gagement with the obvious removing im-  
plements usually employed for such pur-  
pose.

Having thus described my invention, what  
30 I claim and desire to secure by Letters Pat-  
ent is:

1. As a new article of manufacture, a  
tread-plate having an upturned marginal  
flange tapering on opposite sides of the mid-  
35 dle thereof and disappearing near its ends,

said plate being perforated and having up-  
standing embossments about the respective  
perforations, said embossments being, re-  
spectively, of such height as to preserve the  
wedge shape of the device according to the  
40 taper of the marginal flange thereof.

2. As a new article of manufacture, a  
tread-plate having an upturned marginal  
flange tapering on opposite sides of the mid-  
dle thereof and disappearing near its ends,  
45 said plate being perforated and having up-  
standing embossments about the respective  
perforations, said embossments being, re-  
spectively, of such heights as to preserve  
the wedge shape of the device according to  
50 the taper of the marginal flange thereof, and  
the openings at the top of said embossments  
being smaller than at the bottom.

3. As a new article of manufacture, a  
tread-plate having an upturned marginal  
55 flange tapering on opposite sides of the mid-  
dle thereof and disappearing near its ends,  
said plate being perforated and having up-  
standing tapering embossments about the re-  
spective perforations, said embossments be-  
60 ing, respectively, of a height corresponding  
to that portion of said marginal flange to  
which they are adjacent, so as to preserve  
the wedge-shape of the device according to  
the taper of said flange, and, in conjunction  
65 with said flange, to contact with the surface  
to which the device is applied.

In testimony whereof, I have signed my  
name to this specification.

LEON WEINSTEIN.