

E. HUNOLD.
HEEL PLATE.
APPLICATION FILED APR. 9, 1912.

1,050,275.

Patented Jan. 14, 1913.

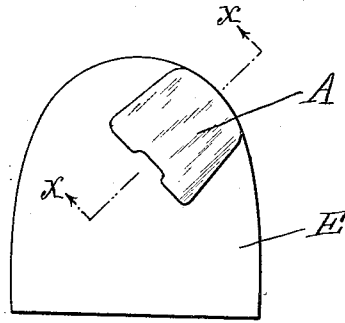


FIG. 1.

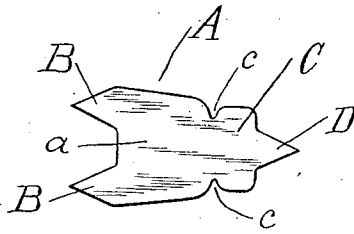


FIG. 2.

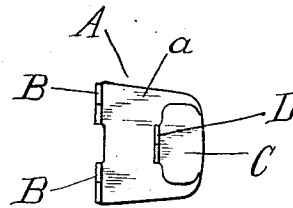


FIG. 3.

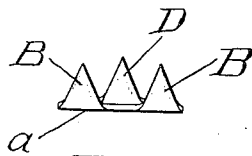


FIG. 4.

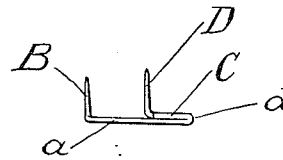


FIG. 5.

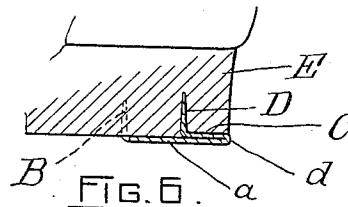


FIG. 6.

WITNESSES.

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HEEL-PLATE.

1,050,275.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ERNEST HUNOLD, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Heel-Plates, of which the following is a specification.

My invention relates to plates adapted for application to shoes and particularly but not exclusively to the heels thereof, and has for its essential objects the ends commonly sought in this class of structures, and in addition thereto such a structure as is available to be manufactured from a flat blank of metal of the desired degree of softness and pliability and at a minimum expenditure, rather than by the more unsatisfactory weak and expensive means of casting heretofore employed which have resulted in dull points, and frangible bodies.

To the above ends essentially my invention consists in such parts and combinations of parts as fall within the scope of the appended claims.

In the accompanying drawings which form a part of this specification, and wherein like characters indicate like parts throughout, Figure 1 is a bottom plan view of a shoe heel showing my novel plate applied thereto, Fig. 2, a plan view of the original blank from which a plate is formed, Fig. 3, a like view of the completed plate, Figs. 4 and 5 are end and side elevations respectively of the same, and Fig. 6 is a section taken on line *x x* of Fig. 1.

The blank plate A is cut from a comparatively thin sheet of bendable material, said blank plate comprising a body portion *a* provided with interspaced integral V-shaped projections B, projecting from one end thereof, and provided at the other end with an ear C, provided with retracted portions or lateral cavities *c* intermediate the portion C and the portion *a*. Upon the end of the portion C is a prong D preferably of the length of the points B. The points B and D have flat opposite faces that taper from the portions *a* and C respectively to their ends.

The described blank is bent up as follows: The portion *a* forms the base, and the prongs B are bent upwardly at approximately right angles to the portion *a*. The extension or ear C is next bent upwardly and downwardly forming a fold *d* at the point of bending, and the upper face of the

member C brought down into contact with the upper face of the portion *a*, thus making a flattened elevated portion upon one end of the plate. The point D is upwardly bent at right angles to the portion C and the body *a*, and in this instance extends as great a distance above the points B as the thickness of the material in the folded portion C. This somewhat greater height of the prong D is found advantageous in that this prong is nearer the worn margin of the heel where a greater length in the prong is convenient to overcome the reduced thickness of the heel. The lapped over portion C is imperative, not only because of the fact that a greater thickness is required upon this margin of the plate upon which the greater wear occurs, but also because when the plate is applied to the shoe, as is usually the case, after the heel has begun to wear somewhat, this folded portion compensates for the lessened thickness of the heel lift. The application of the plate to the shoe is best shown in Figs. 1 and 6, wherein the heel E is shown as having the plate engaged therewith.

Besides the advantages suggested incident to the description of this device, it will be observed that the construction of this plate involves a minimum of operations and is simply performed, and shows an inexpensive construction. By this means a sharpened point is readily provided, and a choice of various metals upon the market is open to the manufacturer which possesses a consistency or softness particularly adapted for a heel plate and which is not available in a cast metal.

It will be further observed that when the prong D is in a higher plane than the plane of the point of the prongs B, the relative lengths of the prongs are such as to facilitate the hammering of the plate into the shoe, since the relative heights of these prongs supplement the varying depths of the worn portion of the shoe, so that the plane of the body of the plate presents a perfectly horizontal surface to the hammer.

What I claim is,

1. In a heel plate, the combination with a body, of prongs upon one end, an ear resting upon the opposite margin of the plate, and a prong upon the inner end of the ear.

2. In a heel plate, the combination with a flat body, of flat interspaced prongs upon one end of the body, an ear integral with the

opposite end of the body and resting thereon and connected therewith by a fold, and a prong upon the inner portion of the ear.

3. In a heel plate, the combination in a
5 single piece of bendable material, of a flat body, provided upon one end with upturned flat sharpened prongs, said body being also provided near its opposite margin with an integral ear resting upon the upper
10 face of the body, the ear being provided with a flat sharpened prong.

4. In a heel plate, the combination with

a body, of prongs upon one end, an ear in lapping contact with the opposite margin of the plate, and a prong upon the inner end
15 of the ear whose height is in excess of the height of the first mentioned prongs.

In testimony whereof I have affixed my signature in presence of two witnesses.

ERNEST HUNOLD.

Witnesses:

HORATIO E. BELLOWS,
FRED W. PERKINS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."