No. 895,367. PATENTED AUG. 4, 1908.

F. A. HARDEN.

HORSESHOE.

APPLICATION FILED MAY 28, 1907.

Fig. 1.

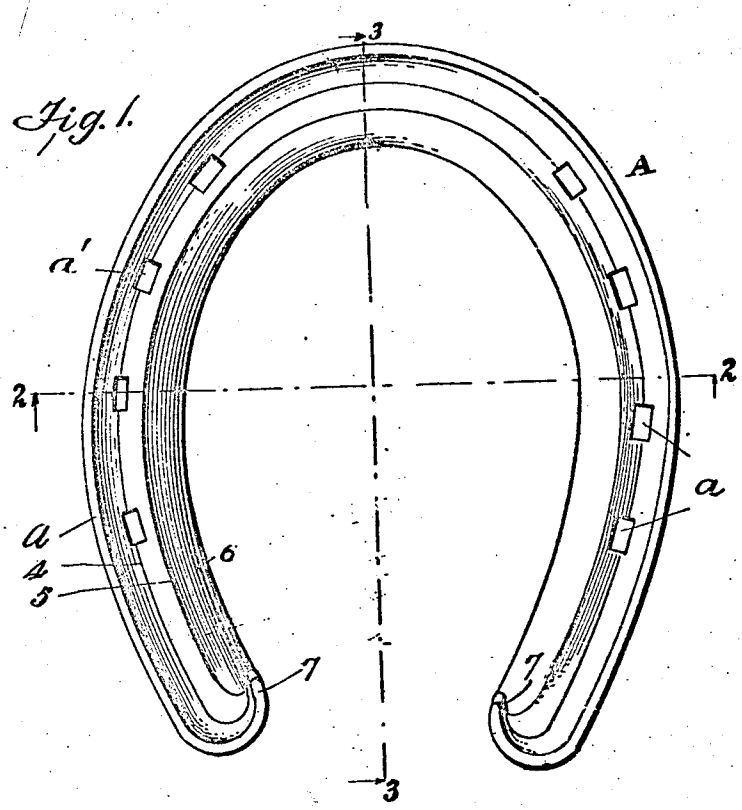


Fig. 2.

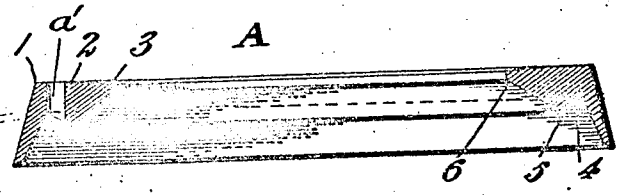
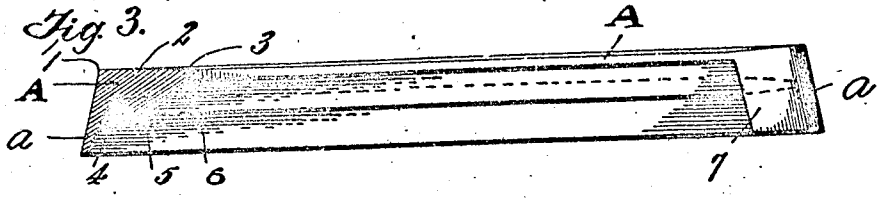


Fig. 3.



WITNESSES

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HORSESHOE.

No. 895,367. Specification of Letters Patent. Patented Aug. 4, 1908.

Application filed May 28, 1907. Serial No. 376,128.

To all whom it may concern:

Be it known that I, FRANK A. HARDEN, a citizen of the United States, residing at Russell, in the county of Greenup and State of Kentucky, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification.

The object of my said invention is to provide a shoe for horses, mules and like animals, which will be stiff and durable, non-slipping, capable of freeing itself from all balls of snow, dirt or other material, and without calks, and it consists in certain improvements, particularly in the form of the bar from which the shoe is formed, by which these objects are accomplished, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar reference characters indicate similar parts; Figure 1 is a plan view of the under side of a shoe of my improved form and construction, Fig. 2 a cross section on the dotted line 2—2, and Fig. 3 a cross section on the dotted line 3—3.

The shoe is of the usual form in outline, to fit the hoof of the animal for which it is designed. The main bar A is of substantially the usual width, its top face being formed with a flat portion from its outside edge 1 to the point 2 and from the point 2 to its inner edge 3 is slightly tapered or beveled away from the level, as shown, to secure a binding fit between the shoe and hoof. Around its outer edge it is formed with a flange *a*, which flares outwardly somewhat and on its inner face is tapered from a comparatively thick base to a thin outer edge. Said flange extends entirely around the shoe and is turned in at the heel, as shown in Fig. 1, to form a hook-shaped holding part 7 which will afford a firm support at each side of the heel of the shoe. Said flange thus not only stiffens the shoe but gives to it its holding and anti-slipping qualities, being used in lieu of the usual toe and heel calks. For use on icy and slippery places its outer edge will be made as sharp or thin as may be necessary for the purpose, while for use upon pavements a thicker edge may be used with the same efficiency and with less wear upon the shoe. The taper on the inside face of said flange makes it impossible for snow or mud to become packed therein to form "balls" and interfere with the holding qualities of the shoe, for the taper affords a relief which serves to enable the shoe to free itself from all such substances under the action of the animal's feet in his movements. From the base of said flange at 4 the under face of bar A is tapered upwardly to the point 5, forming a groove for the heads of the nails which project through the holes *a'* formed at intervals in the bottom of said groove. From the point 5 to the inner edge 6 it is also tapered, forming a V-shaped rib entirely around the bar A and about midway its width, which serves to stiffen the shoe and, while not high enough to interfere in any way with the flange *a* in the performance of its functions, serves to co-act with the tapered surface of the inside face of flange *a* to enable the shoe to throw out any accumulation of matter. By this form a shoe is provided which is durable, while containing the least amount of metal possible and yet of the required rigidity, and one that will neither slip nor clog.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:—

A horseshoe formed of a main bar having a continuous unbroken flange surrounding its outer edge and inturned at its heel on both sides and extending along its inner edge on an even level with the outer flange to form hook-shaped holding portions having elongated holding edges, said flange being substantially uniformly tapered on its inner face from its base to a thinner edge, and the under side of the main bar of the shoe tapered from its inner edge to a thicker portion toward said flange, nail-holes being formed in the depression between said thick portion and said flange, substantially as set forth.

In witness whereof, I have hereunto set my hand and seal at Washington D. C. this 10th day of May, A. D. nineteen hundred and seven.

FRANK A. HARDEN. [L. S.]

Witnesses:
E. W. BRADFORD,
A. M. SMALLWOOD.