

C. W. ATKINSON.  
HORSESHOE.

No. 189,011.

Patented April 3, 1877.

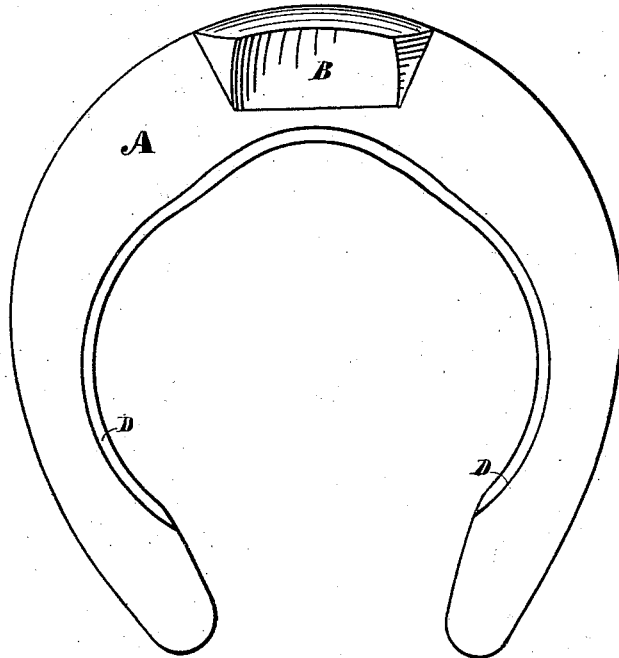


Fig 1

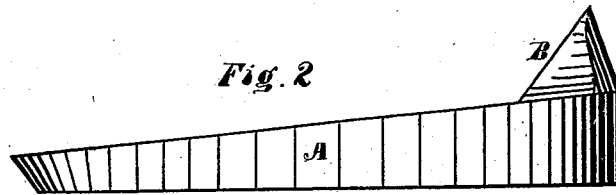


Fig. 2

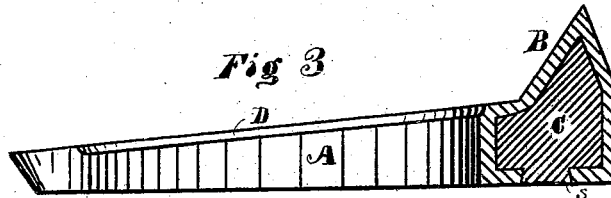


Fig 3

Witnesses;  
Erastus J. Russell  
O. B. Whitney

Inventor.  
Charles W. Atkinson  
Per. C. D. Frink  
his Atty.

# UNITED STATES PATENT OFFICE

CHARLES W. ATKINSON, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO HENRY ATKINSON, OF SAME PLACE.

## IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 189,011, dated April 3, 1877; application filed November 21, 1876.

*To all whom it may concern :*

Be it known that I, CHAS. W. ATKINSON, of Indianapolis, county of Marion, State of Indiana, have invented a new and useful Toe-Weighted Horseshoe, of which the following is a description, reference being had to the accompanying drawings.

The object of my invention is to increase the weight of metal at the toe of a horseshoe, and do away with the ordinary toe-weights, that are strapped or otherwise attached to the hoof of a horse above the shoe; and my invention consists in providing the thick part of the toe with a recess or cavity, which is filled with metal that has a specific gravity greater than the metal used to form the shoe, such as lead, &c.

Figure 1 represents a plan view of a horseshoe embodying my improvement. Fig. 2 is a side elevation of the same. Fig. 3 is a sectional view of the same, taken through the center of the toe, and shows the recess to receive the heavier metal.

A represents the horseshoe, which is formed thick at the front or toe, and gradually tapers to the heels. The inner side of the shoe has a chamfered edge, D, to allow the hoof to yield on the inside as the weight of the horse is brought to bear on the shoe. In the front or toe of the shoe, as seen in Fig. 3, there is a recess cast or formed therein, in which the heavier metal C, such as lead, &c., is secured.

The metal C may be melted and poured in through suitable holes or gates s, formed either at the top, bottom, front, or rear, the opening being sealed or "calked" by condensing the metal therein.

The advantages of this kind of a toe-weight shoe can be readily seen: First, the weight at the toe is in its proper position under the toe of the hoof, and operates much more readily on the joints, and holds the toe of the hoof down much better with less weight than those where the weight is located on top and at the front of the hoof; second, there are no cumbersome straps, buckles, or screws, that add unnecessary weight to the back and sides of the hoof, in order to get the extra weight at the toe.

What I claim as new, and wish to secure by Letters Patent, is—

A toe-weighted horseshoe—namely, a cast shoe having a cored chamber in the toe, in which is inserted lead or other metal whose specific gravity is heavier than the metal of the shoe, in the manner and for the purposes set forth and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES W. ATKINSON.

Witnesses:

E. O. FRINK,  
E. C. WHITNEY.