

G. W. SKINNER,

HORSE SHOE.

74620

Fig. 1.

PATENTED

FEB 18 1868

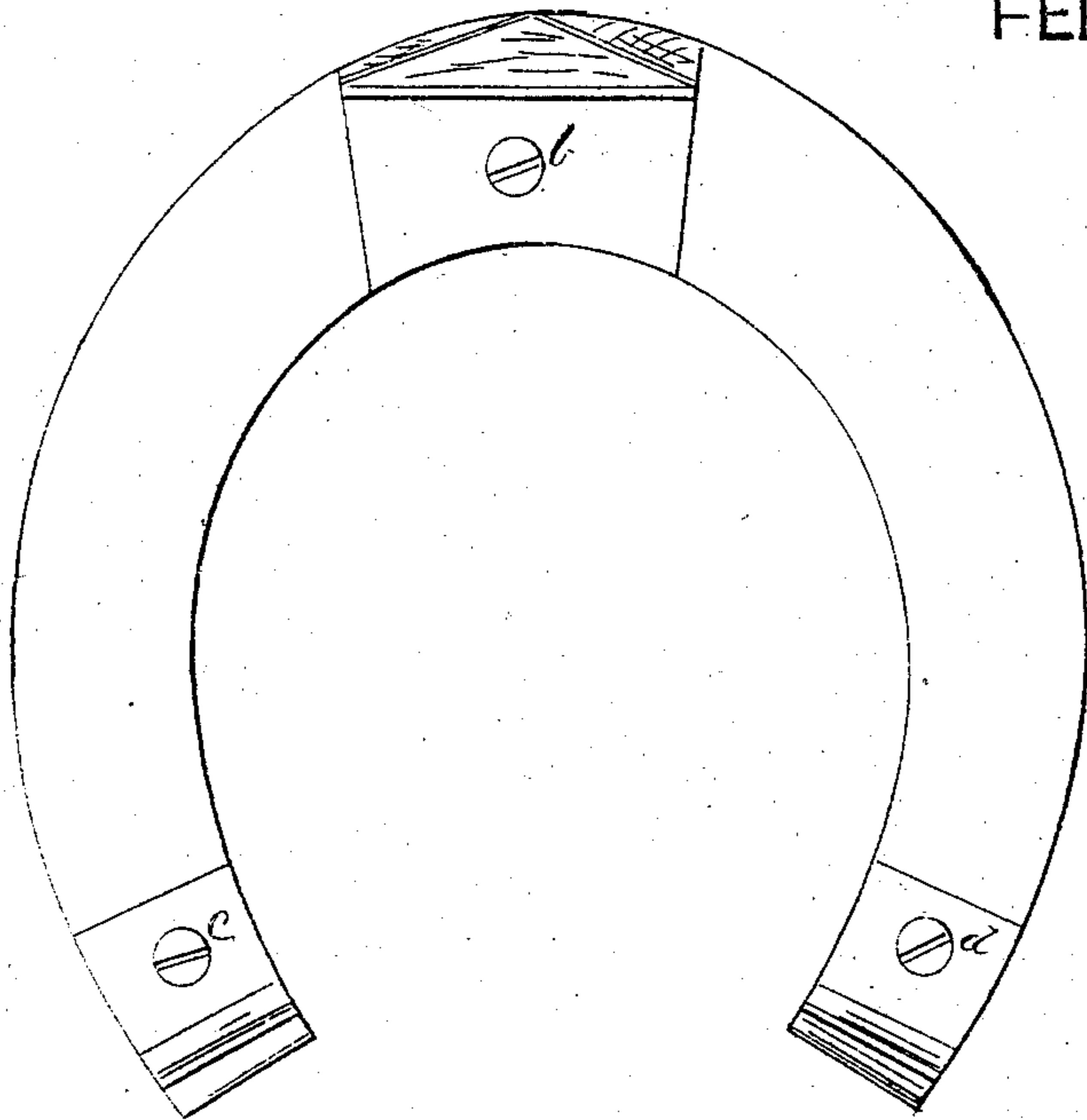


Fig. 2.

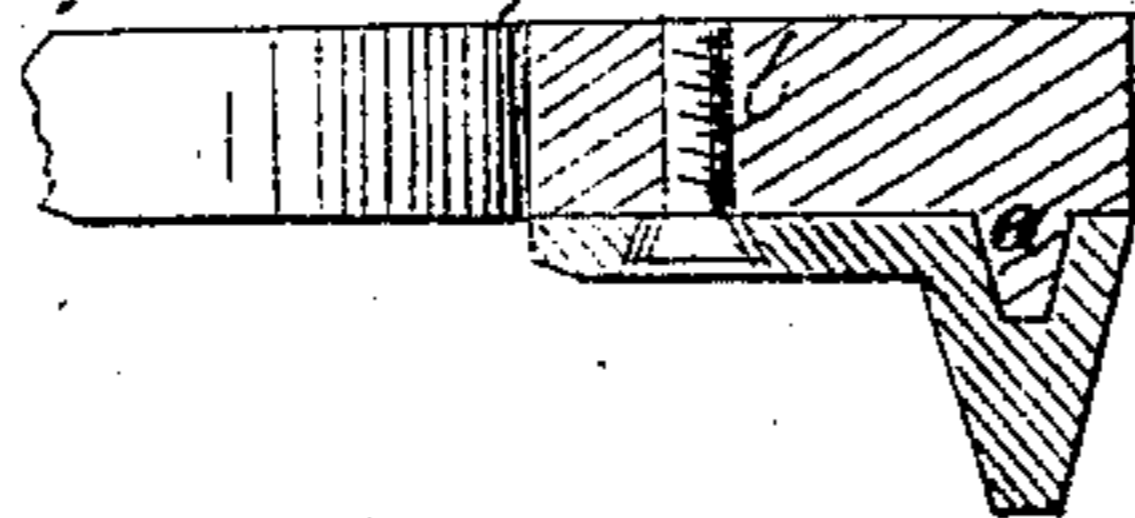


Fig. 3.

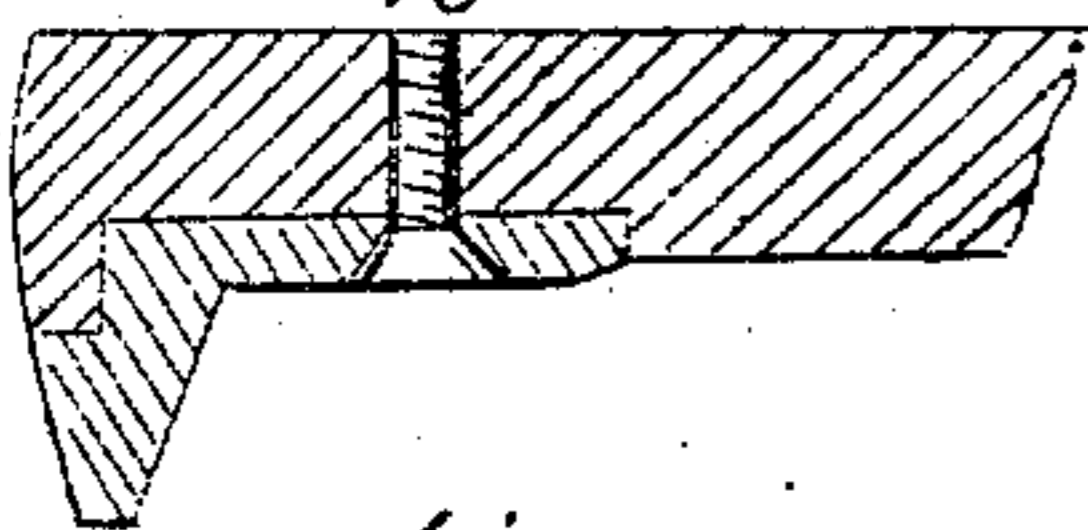


Fig. 5.

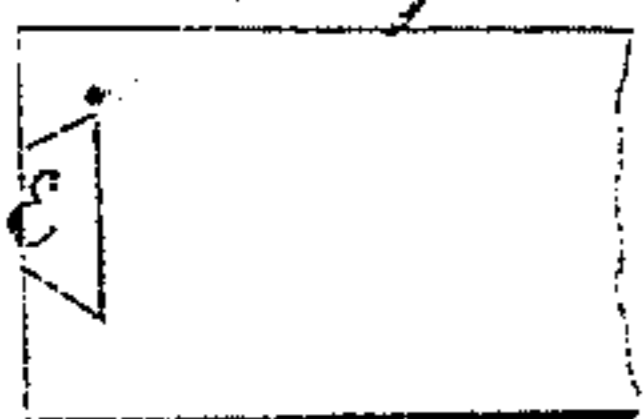
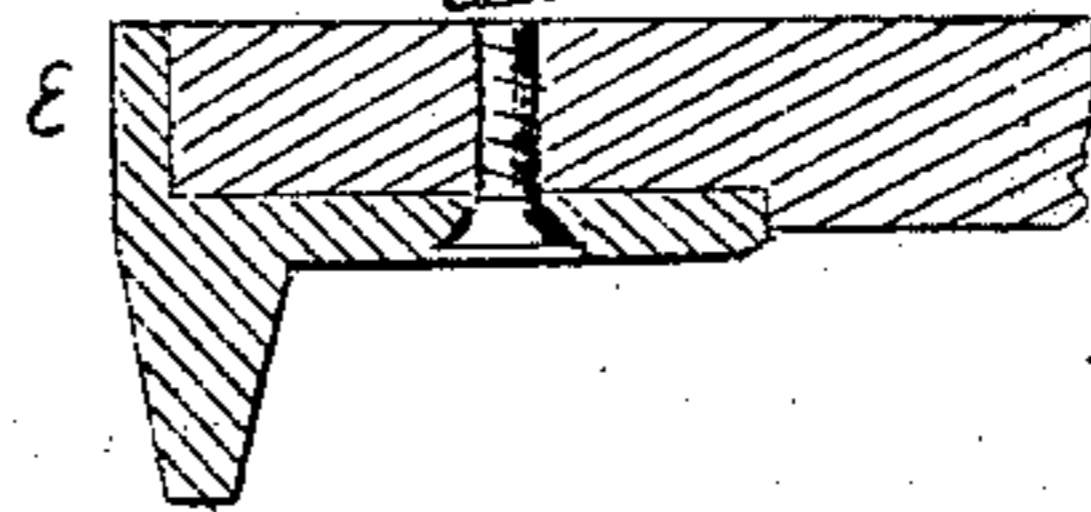


Fig. 4.



Witnesses.

W. T. Dodge
J. A. Heald.

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By
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Attys

United States Patent Office.

GEORGE W. SKINNER, OF ROCKFORD, ILLINOIS.

Letters Patent No. 74,620, dated February 18, 1868.

IMPROVEMENT IN HORSE-SHOES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, GEORGE W. SKINNER, of Rockford, in the county of Winnebago, and State of Illinois, have invented certain new and useful Improvements in Horse-Shoes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

I make my horse-shoe in the ordinary manner, and of the usual general form, with certain modifications at the toe and at the heels, so that adjustable calks can be fastened to it. These calks I make separately and of different forms.

Figure 1 represents a full front view.

Figure 2 represents a sectional view of the toe.

Figures 3 and 4 represent sectional views of the heels.

Figure 5 represents an under-side view of the heels.

My invention consists in a novel method of constructing and attaching the toe and heel-calks to the shoe, as hereinafter explained.

I construct the toe-calk A, with its vertical portion, in the usual form, and with a lateral flange, *a*, which has a hole through it for the insertion of a screw, *b*, which screw also enters a suitably-prepared hole in the shoe, for fastening the calk to the shoe, as shown in figs. 1 and 2. In the upper face of the calk A, I form an oblong bevelled recess, for the reception of a corresponding spur, *a*, formed on the under face of the shoe, at its front portion, these parts being shown, in section, in fig. 2.

As both the recess and the spur are to be formed by suitable dies, it is important they be made bevelled, to prevent their sticking in the dies, in the process of swaging them. It is also desirable to form them bevelled for the reason that, by making the spur slightly larger than the recess, the parts are capable of being tightened up, as they become loosened by wear, by simply turning the screw *b*, and which could not be done if the recess and spur were made with vertical instead of inclined surfaces or sides. The spur *a* serves to prevent the calk from slipping laterally, while, by means of the screw, it is held tightly to the shoe, and, at the same time, may be removed and replaced by another, at will, and without removing the shoe from the animal's foot.

The calks upon the heels I make in one or the other of two forms, and adjust and then fasten them with set-screws *c d*. In one, I make the calk with a dove-tailed tongue, which fits into the end of the heel, as shown by *e*, figs. 4 and 5. In the other, I make a small blunt calk on the heel, and then make the adjustable calk of the proper shape to fit it closely. I make the heels of the shoe so as to allow these calks, at their base, to sink below the face of the shoe, as shown in figs. 3 and 4. These calks I attach to the shoes, formed for the purpose, with set-screws.

In this way, I am enabled to make a shoe with adjustable calks, that may be taken off and renewed whenever necessary.

What I claim as my invention, is—

1. Constructing a horse-shoe with a bevelled projecting spur, *a*, at its front, and the toe-calk with a corresponding recess, to receive the spur *a*, and then securing the toe-calk in place by means of the same, together with a screw, *b*, as shown and described.

2. The detachable heel-calks, fitted to a recess in the under side of the shoe, and held in place by means of the projection *E* or *E'* and screw *a'*, as shown and described.

GEORGE W. SKINNER.

Witnesses:

JOHN M. BUELL,

THOS. J. RUDD.