

J. S. Robertson,

Horse Shoe.

No. 109055.

Patented Nov. 2. 1870.

Fig. 1.

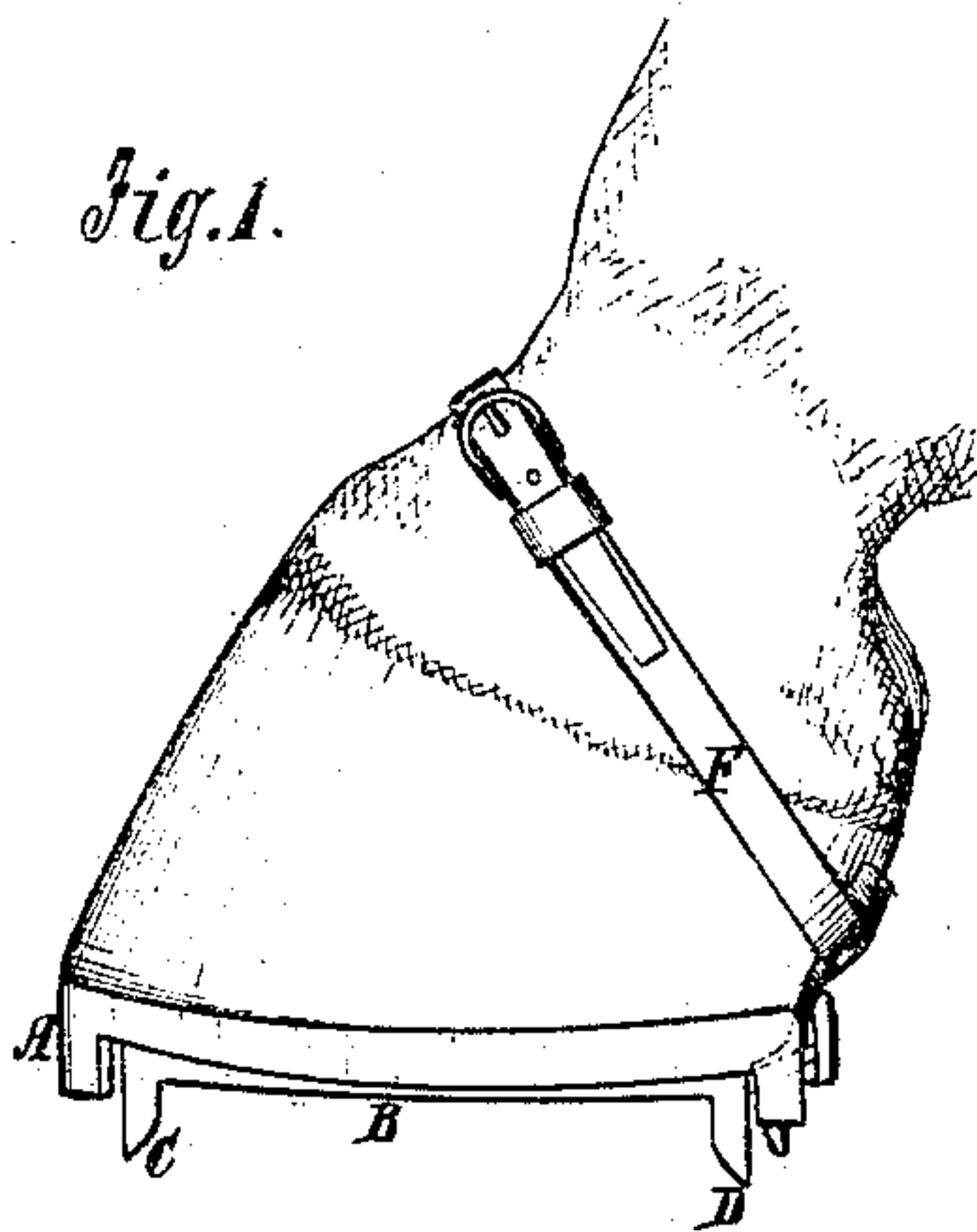


Fig. 2.

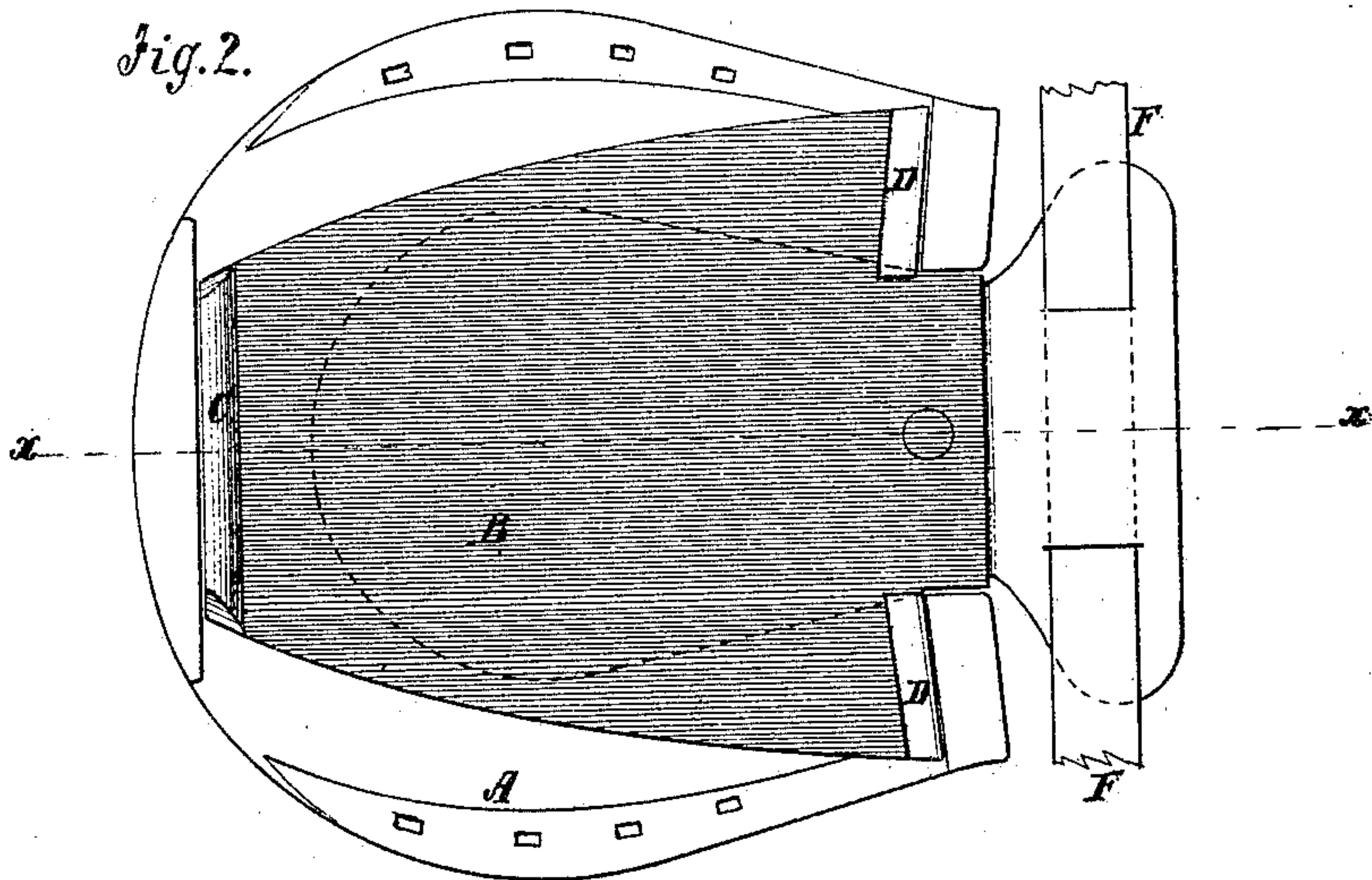
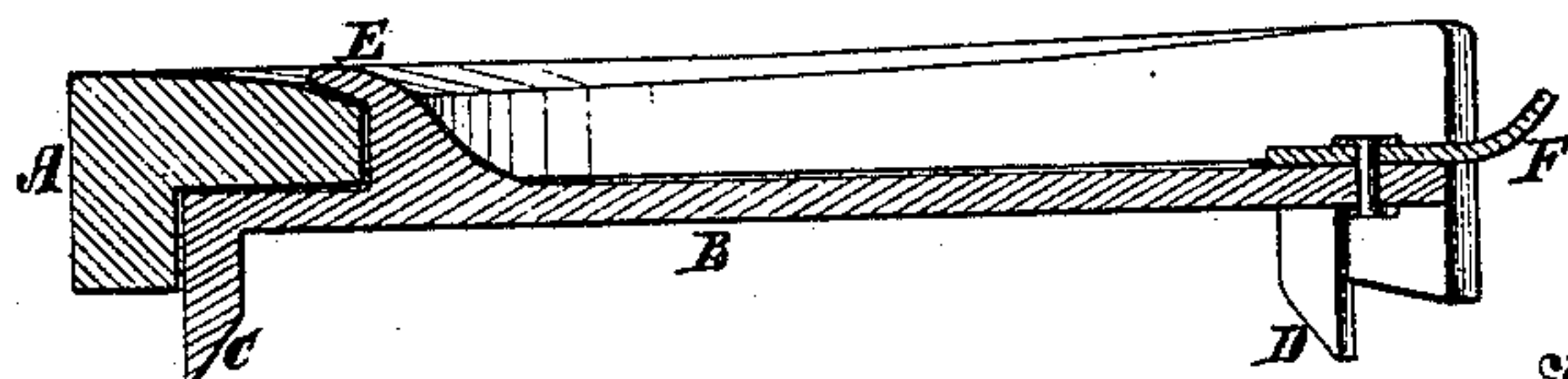


Fig. 3.



Witnesses:

A. Bennekenhoff
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Inventor:

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PER *Wm. D. [Signature]*
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United States Patent Office.

JOHN S. ROBERTSON, OF WOOD END, NEAR CATHCART, SCOTLAND.

Letters Patent No. 109,055, dated November 8, 1870.

IMPROVEMENT IN HORSESHOES.

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, JOHN S. ROBERTSON, of Wood End, near Cathcart, in Scotland, have invented a new and useful Improvement in Horseshoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

The object of this invention is to provide an appliance by means of which horses may in a few minutes be fitted for encountering ice and snow, and by means of which the foot will be protected; and

It consists in a metallic plate attached to the ordinary horseshoe, as hereinafter more fully described.

In the accompanying drawing—

Figure 1 represents my improvement as applied to the horse's hoof.

Figure 2 is a top view of the plate connected with the horseshoe.

Figure 3 is a vertical section of fig. 2 on the line *xx*.

Similar letters of reference indicate corresponding parts.

A is the ordinary horseshoe, which is made without calks, or as summer shoes are usually made for horses.

B is the plate, which is provided with toe and heel-calks C and D, as seen in the drawing.

This plate B is attached to the upper side of the shoe by means of the hook E at the toe, and by means of the strap F at the heel, the strap being firmly at-

tached to the plate, and buckled over the instep of the horse, as seen in fig. 1.

The plate is kept in place by the common blunt calks of the shoe at heel and toe, between which the plate is designed to fit, as seen in fig. 2.

The calks C and D on the plate may be formed thereon, or be made detachable, so that they can be renewed without renewing the plate.

This plate entirely shields the "frog" and hollow of the horse's foot, and prevents his "balling" in the snow, and the entrance of stones and dirt, as well as injury to the foot in various ways, as, for instance, stepping upon nails, spikes, or any sharp or pointed instrument or material.

A layer of India rubber or other elastic material may be placed between the plate and the shoe, and the strap, by which the plate is fastened at the heel, may be of more elastic material than leather, if desired.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The plate B, provided with the toe and heel-calks C and D, and secured in place by means of the hook E, and strap F, substantially as shown and described.

The above specification of my invention signed by me this 9th day of August, 1870.

JOHN S. ROBERTSON.

Witnesses:

ROBERT HUNTER,
JAMES HUNTER.