

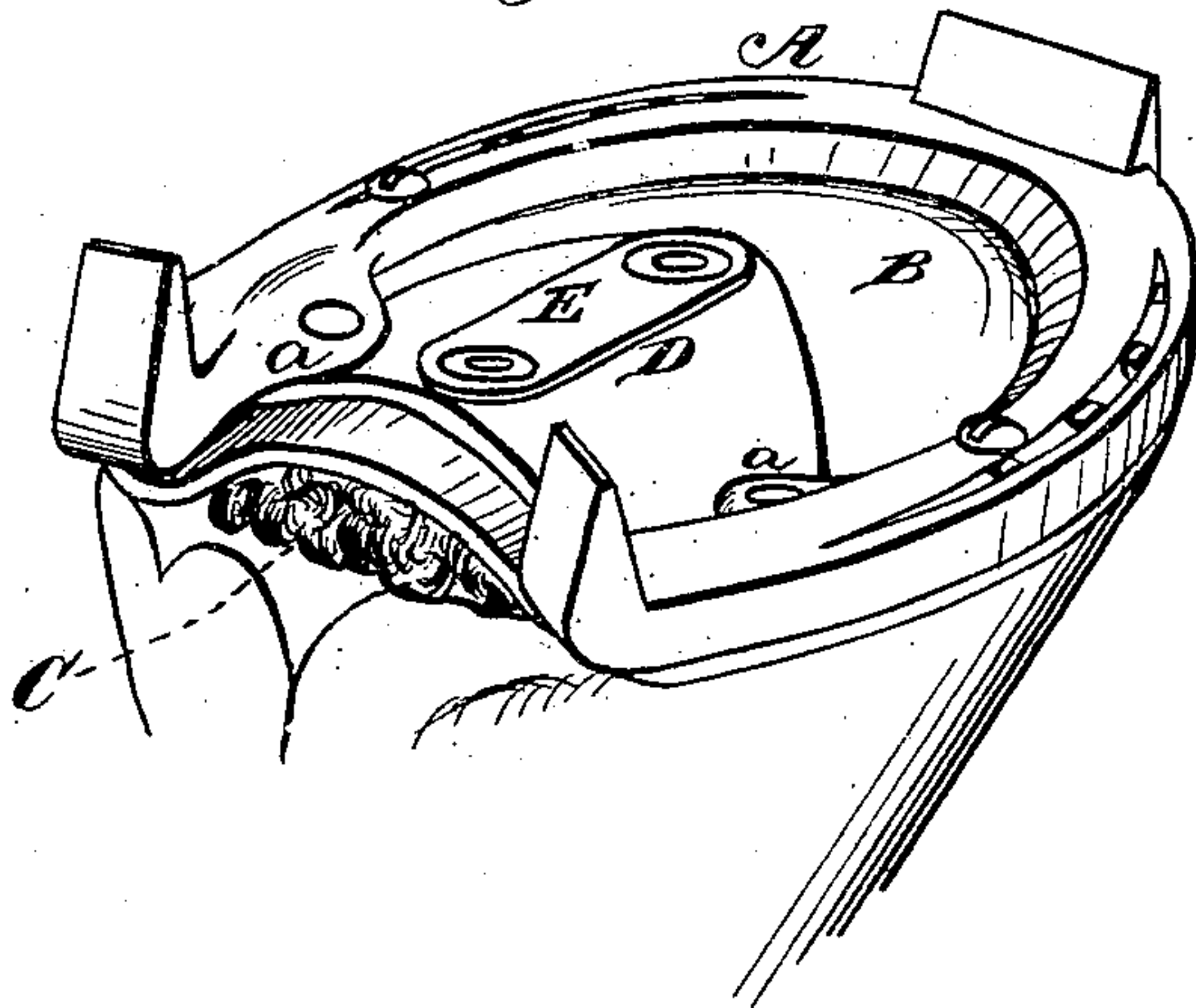
(No Model.)

A. J. LOCKIE.  
Pad for Horses' Hoofs.

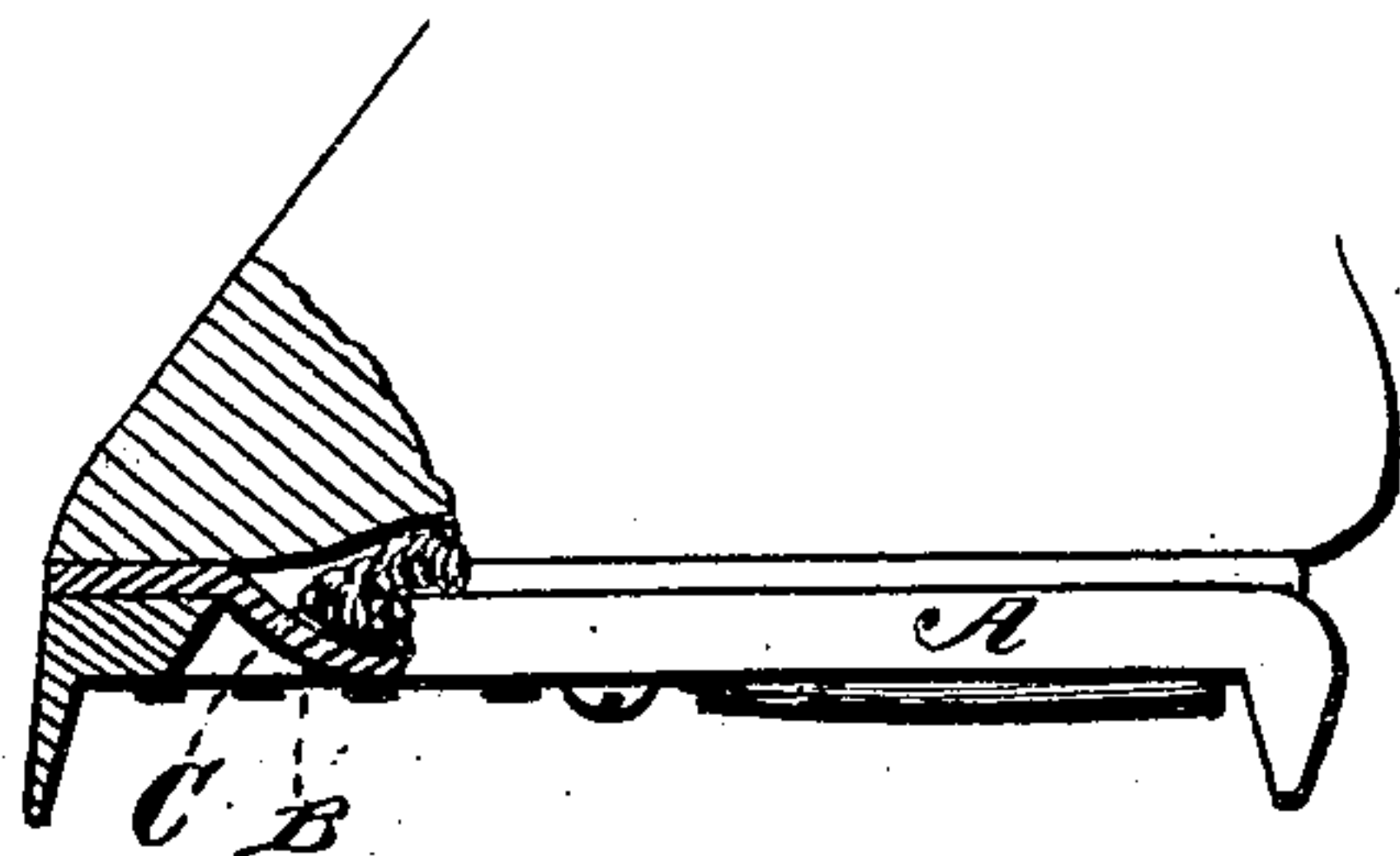
No. 228,262.

Patented June 1, 1880.

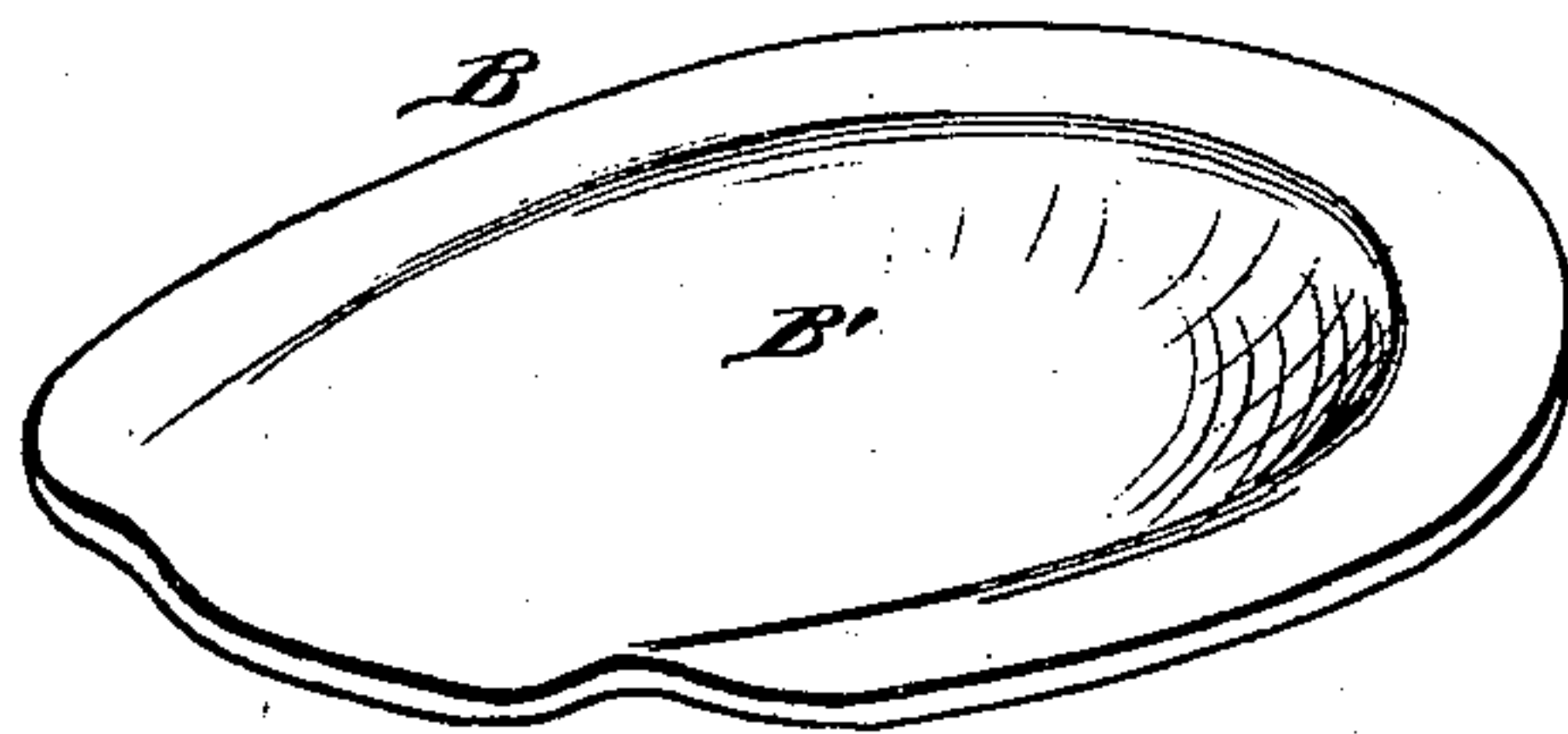
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses.

*Robert Everett*

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*Inventor.*

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*by*  
*W. H. Babcock*  
*Attorney.*

# UNITED STATES PATENT OFFICE.

ANDREW J. LOCKIE, OF ROCHESTER, MINNESOTA, ASSIGNOR OF ONE-HALF  
OF HIS RIGHT TO MARTIN J. HURD, OF SAME PLACE.

## PAD FOR HORSES' HOOFS.

SPECIFICATION forming part of Letters Patent No. 228,262, dated June 1, 1880.

Application filed March 30, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, ANDREW J. LOCKIE, a citizen of the United States, residing at Rochester, in the county of Olmsted and State of Minnesota, have invented certain new and useful Improvements in Pads for Horses' Hoofs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to pads arranged under horses' hoofs to keep the latter from injury by concussion or drying.

When a horse is shod in the usual way, without a pad, the jar of stepping upon hard ground is transmitted directly and almost wholly from the shoe to the outer wall of the hoof, which is often injured thereby. In the foot which has never been shod the frog has nearly as much pressure in the full step as the wall, and even in rapid stepping the frog receives the weight as the foot settles back to its level. I aim to distribute the force of concussion through the shod foot in a similar manner, and to brace the outer wall of the hoof against the effects of such concussion.

The hoof is specially liable to fracture and injury in dry weather by the abstraction of moisture, which abstraction renders it brittle. This has heretofore sometimes been prevented by fastening a pad of absorbent material under the foot and keeping the said pad saturated with liquid. I adopt this method, but employ special means of attachment, which are simpler than those hitherto used and free from the objections found therein.

In the accompanying drawings, Figure 1 represents a perspective view of the bottom of a horse's foot, showing the shoe and pad in place. Fig. 2 represents a side view of the same, partly in section, showing the edge of the pad between the shoe and the hoof. Fig. 3 represents the pad with the shoe and stiffener removed, showing the peculiar shape of the pocket for the sponge.

A designates a shoe of ordinary construc-

tion, but provided with lugs *a a*, arranged opposite to one another near the heel-calks, though not quite so far back. B designates a sheet of leather, rubber, or other suitable material, which is curved so as to form a pocket, B', for the reception of sponge C, filling the hollow of the foot. This pocket has approximately the shape of a half-pear, the broader and deeper part being toward the toe, and the part next the heel being only a narrow shallow neck, through which the sponge cannot escape. Sheet B extends between the shoe and the hoof on all sides, and the operation of nailing on the shoe therefore secures the pad to the foot also.

The peculiar shape of the pocket also results in bracing most firmly the forward part of the hoof, which receives the first force of the stroke in rapid stepping. A backing of well-pressed sponge at this point necessarily lessens the jar very much, and distributes it equally throughout the foot, keeping the hoof properly extended and lubricated. Oil, water, or any other suitable liquid may be used for saturating the said sponge, and any absorbent material may form a filling for the pocket in its stead.

A stiffening-piece, D, is secured to the rear part of sheet B, under the latter, and attached to lugs *a a* of shoe A by means of bolts or other suitable devices. It strengthens the pad at this point and effectually prevents the escape of the sponge or stuffing. A metallic brace-plate, E, is bolted to the bottom of stiffener D.

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

1. Shoe A, having lugs *a a*, in combination with sheet B and stiffening-piece D, both of which are attached to said lugs.

2. A horse-foot pad consisting of sheet B, stiffening-piece D, and brace E, with suitable packing for the pocket in said sheet.

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

ANDREW J. LOCKIE.

Witnesses:

P. L. DANSINGBURG,  
M. J. BURROUGHS.