

H. Schreiner,

Horseshoe.

N^o 70,274.

Patented Oct 29, 1867.

Fig. 2.

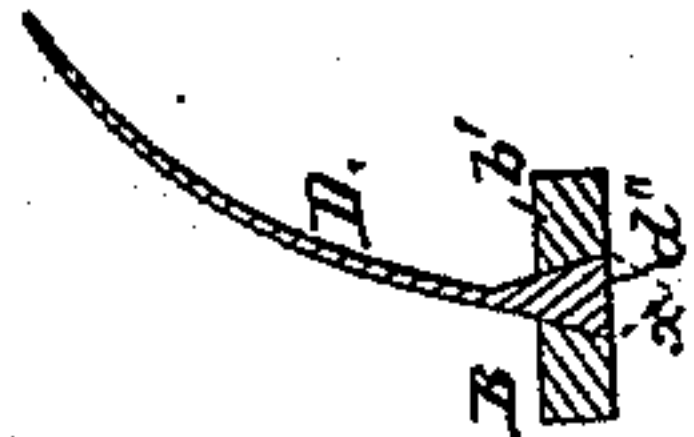
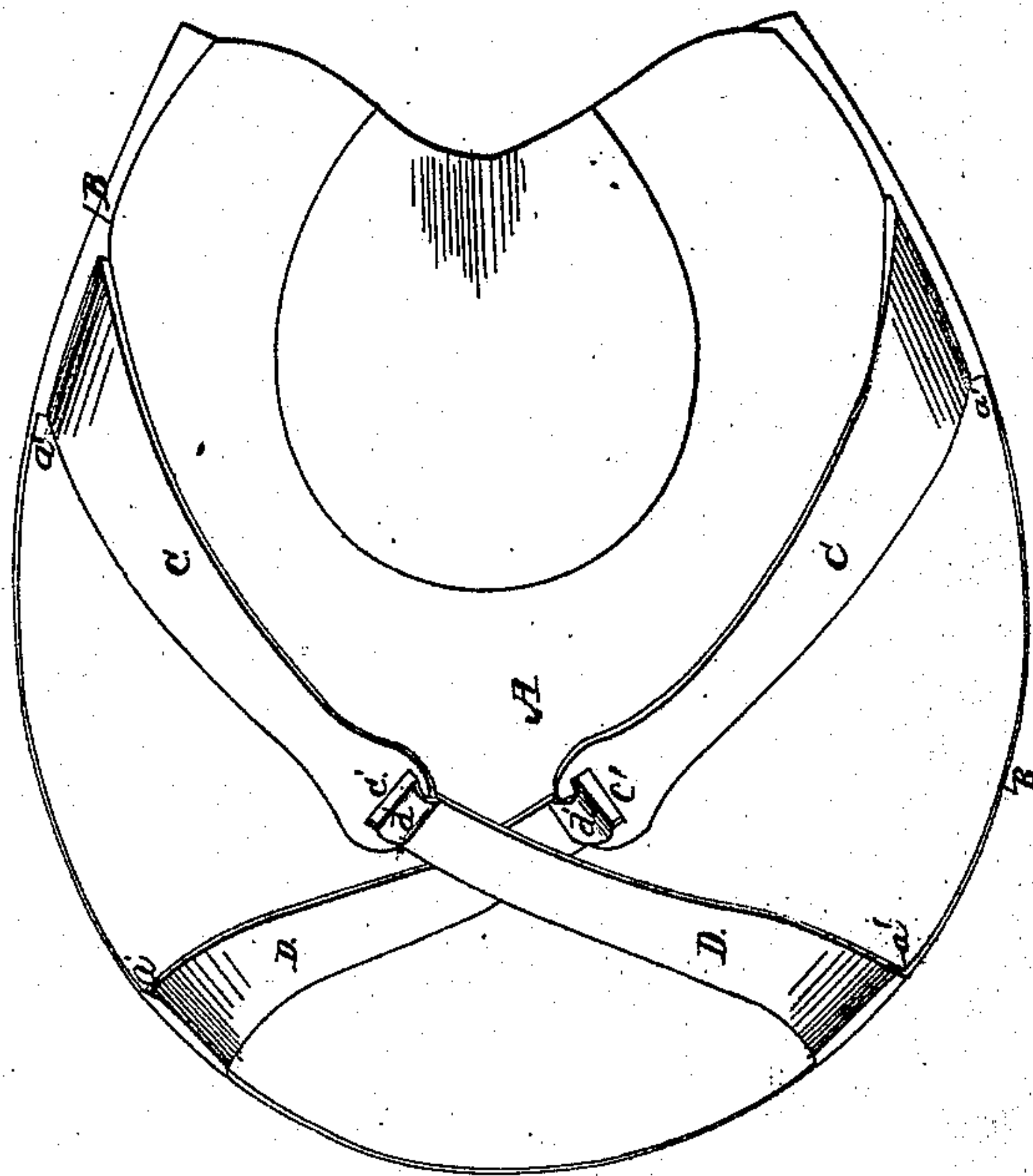


Fig. 1.



Witnesses:
Wm. H. Morison
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Inventor:
Henry Schreiner

United States Patent Office.

HENRY SCHREINER, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 70,274, dated October 29, 1867.

IMPROVEMENT IN ATTACHING 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, HENRY SCHREINER, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in the Nailless Horse-Shoe; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a hoof having my improved shoe applied thereto, and

Figure 2 a transverse section of a part of the said shoe—

Like letters of reference indicating the same parts when in both figures.

The object of my improvement is to afford a more simple, inexpensive, and reliable mode of attaching the belts to the sole of the shoe, and in arranging them in relation to each other and the hoof so as to allow a more free and easy spreading of the latter upon the sole.

My invention consists, substantially as hereinafter described, in securing the sole to the hoof by means of two like belts, each reaching respectively from near the heel on one side of the hoof, and extending diagonally around over the same to a point on the opposite side near the toe, the said two belts crossing each other near the middle of the front of the hoof; and my invention also consists in attaching the belts to the sole by means of tapering mortises made through the sole, and corresponding enlargements made on the lower ends of the belts, substantially as hereinafter described.

Referring to the drawings, A is the animal's hoof, B the sole of the shoe, and C-D C-D the two belts. Each belt (C-D) consists of two metallic straps, the one, C, having an eye or transverse slot, *c'*, through which the thin end *d'* of the other strap D is passed from the under side, and then drawn and bent over and down upon C, so as to securely bind the two parts C-D together, as represented in fig. 1. In fig. 2, the manner of attaching the two parts of each of the two belts C-D and C-D to the sole B is clearly shown, the mortises *b'* being oblong openings made directly upward through the sole B, and wider at their bottoms than at their tops, and the lower ends *d''* of the belts C-D enlarged or thickened, so as to make them fill or fit the said mortises, and, of course, prevent the former from being drawn upward out of the latter in either fastening the shoe to the hoof, or in subsequent usage.

In applying this nailless-shoe, small recesses, *a'*, are required to be made in the lower edge of the hoof A, for the reception of the lower part of the belts above the sole, as shown in fig. 1, for the purpose of allowing the outer edge of the sole B to come nearly even with the outer edge of the hoof, and for preventing the shoe from slipping forward or sideways on the hoof in use.

The drawing represents a light or summer shoe, the lower ends of the belts C-D being made flush or even with the bottom of the sole; but for heavy draught or winter shoes, these lower ends are intended to be made so as to project downward beyond the bottom of the sole B in a pointed or wedged shape, to serve as calks, as indicated by the dotted lines *x* in fig. 2.

Operation: It will be seen that this shoe will allow the natural, free spreading required in the animal's foot in a perfect manner; that as the two parts of the belts C-D are merely inserted in their respective mortises in the sole B, they can be readily withdrawn and re-inserted in fitting the shoe to the hoof, or in substituting rough or smooth bottoms.

I wish it to be understood that I do not intend to confine myself, in the manufacture of this nailless shoe, to the use of the eye *c'* and clinch *d'* in connecting the two parts C and D of the belts together, as they may be connected as securely by means of a screw-bolt and nut, or by means of a rack, as in my former invention or improvement in nailless horse-shoes; but having fully described my improvement herein, what I claim as my invention, and desire to secure by Letters Patent, is confined to the following, viz:

1. I claim attaching the belts to the sole B by means of the tapering mortises *b'*, and the corresponding enlargements *d''* on the lower ends of the said belts, substantially as described and set forth.

2. I claim the combination of the belts C and D with the enlarged heads *d''* and clasp *d' c'*, operating substantially as described, and for the purpose set forth.

HENRY SCHREINER.

Witnesses:

BENJ. MORISON,

WM. H. MORISON.