

(No Model.)

F. W. STEINER.

HORSESHOE.

No. 283,434.

Patented Aug. 21, 1883.

Fig. 1.

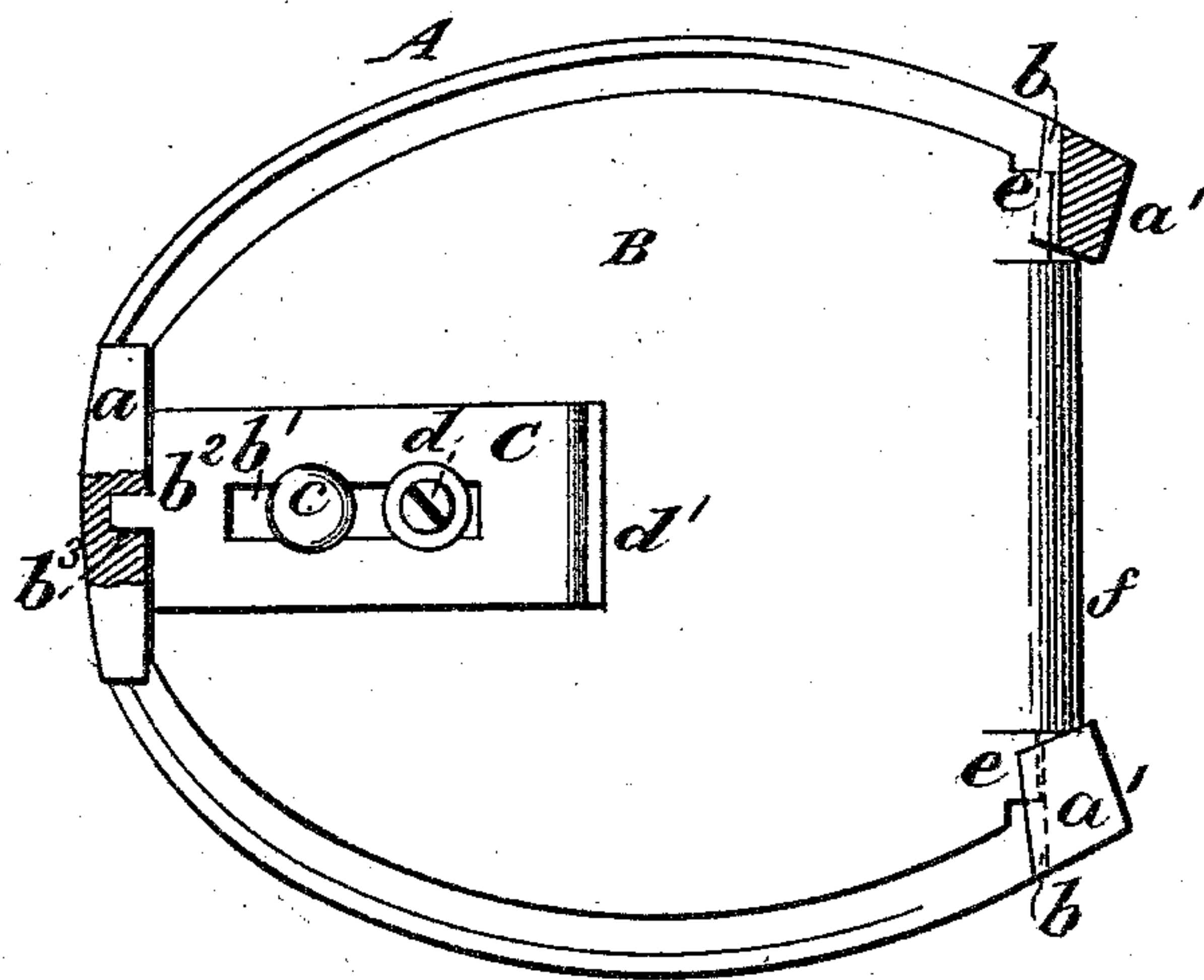


Fig. 2.

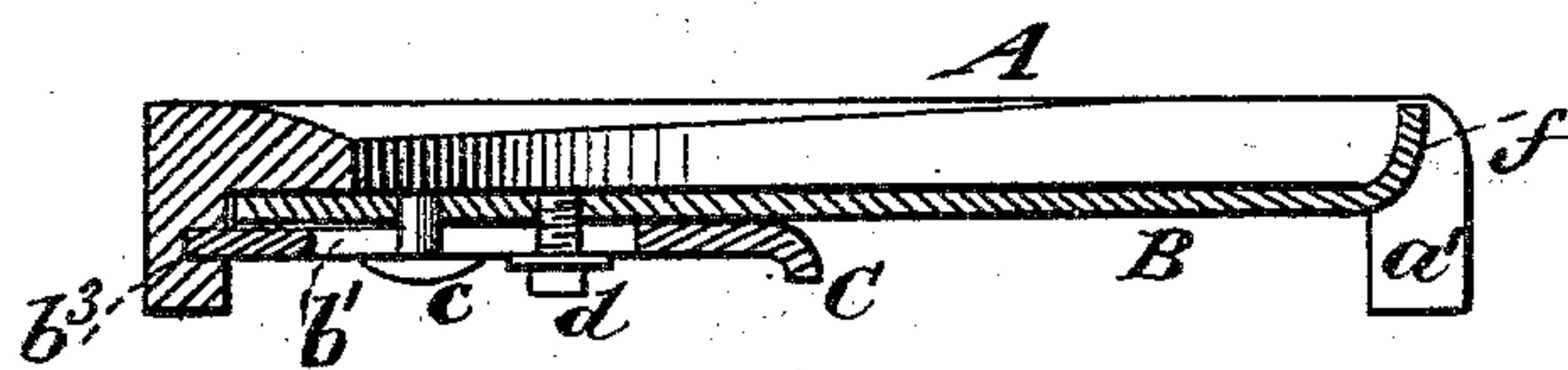
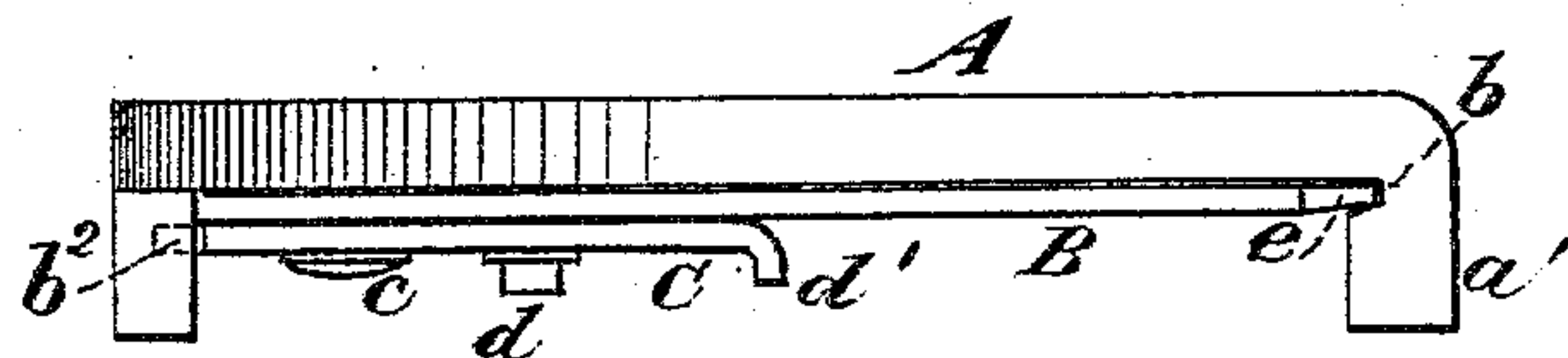


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

FREDERICK W. STEINER, OF PLAINFIELD, ILLINOIS, ASSIGNOR OF ONE-HALF TO CHARLES A. STEINER, OF SAME PLACE.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 283,434, dated August 21, 1883.

Application filed June 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. STEINER, a citizen of the United States, residing at Plainfield, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in horseshoes.

The object of my invention is to prevent the balling or clogging of horses' feet with snow and ice during use in the winter season, and to protect the under surface of horses' feet from injury when used on rough and stony ground. I attain this object by means of the peculiar construction and arrangement of the different parts of my device, which will be more fully pointed out and described in the specification and claims, reference being had to the drawings accompanying this application, and forming a part of the same, in which—

Figure 1 is a plan view of my invention, partly in section, showing shoe, plate, and fastenings. Fig. 2 is a longitudinal sectional view of the same, and Fig. 3 is an edge view.

Similar letters refer to similar parts throughout the drawings.

Referring to the drawings, A represents a horseshoe, formed, in the usual manner, with toe-calk *a* and heel-calks *a'*. The inner faces or edges of calks *a'* are provided with recesses *b*, cut in on a line with and close to the bar of the shoe, the purpose of which is to receive the edges of the portions *e* of plate B. Toe-calk *a* is provided with an angular recess, *b*³, formed centrally on its inner face, as shown in Fig. 1, for the purpose of a projection, *b*², formed on slide C, to aid in holding plate B in place.

Plate B is formed of metal or other suitable material, conforming in its outward shape to the shape of the shoe A. Its rear portion, *f*, is curved upward on a level to or with the inner or upper surface of shoe A. The purpose of this formation is to prevent snow, ice, or other material from passing in between the plate B and the animal's foot. A sponge or other porous substance adapted to be filled with liniment or other liquid, placed between the foot of the animal and plate B, will be securely held in place and protected from dirt

or gravel by said plate. On each side of curve *f*, and near the base of the same, are formed sharp projections *e*, adapted to fit into recesses *b*, by means of which the rear part of plate B is held in place, as shown in Fig. 1.

Plate B is formed of the proper size to fit inside the calks *a* and *a'*, and the front portion is provided with a plate, C, having an angular slot, *b'*, through which passes a clamping-screw, *d*, and a headed bolt, *e*, that is rigidly secured in plate B. The purpose of this construction is to permit of the longitudinal adjustment of plate C on plate B. The front end of plate C is formed with a projection, *b*², adapted to fit into the recess *b*³, formed in the toe-calk *a*. The rear end of plate C is outwardly curved at *d'*, by which said plate is adjusted when released by screw-nut *d*.

The operation of inserting and removing the plate B is as follows: The ends *e* are inserted in recesses *b*, the plate pressed against the shoe A, when the slotted plate C is pushed forward until the projection *b*² engages with angular recess *b*³, formed in the toe-calk *a*, when the screw-bolt *d* is turned down against plate C, when the plate C is securely held in place. To remove the same, reverse the operation.

Having thus described my invention, what I desire to secure by Letters Patent is—

1. A fender-plate for horseshoes, consisting of a plate having an upwardly-curved rear edge, with projections on either side, a slotted metal slide or plate adapted to slide longitudinally to or from the front of said fender-plate, with a guide-bolt and clamping-screw working within said slot, by which said slide-plate is held in place, substantially as shown and specified.

2. The combination of the horseshoe A, toe-calk *a*, recess *b*³, heel-calks *a'*, recess *b*, with the plate B, having rearward curve, *f*, projections *e*, plate C, having outward curve, *d'*, slot *b'*, projection *b*², guide-pin *c*, and clamp screw-bolt *d*, substantially as shown and specified.

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

FREDERICK W. STEINER.

Witnesses:

HENRY G. EDDY,
W. S. MYERS.