

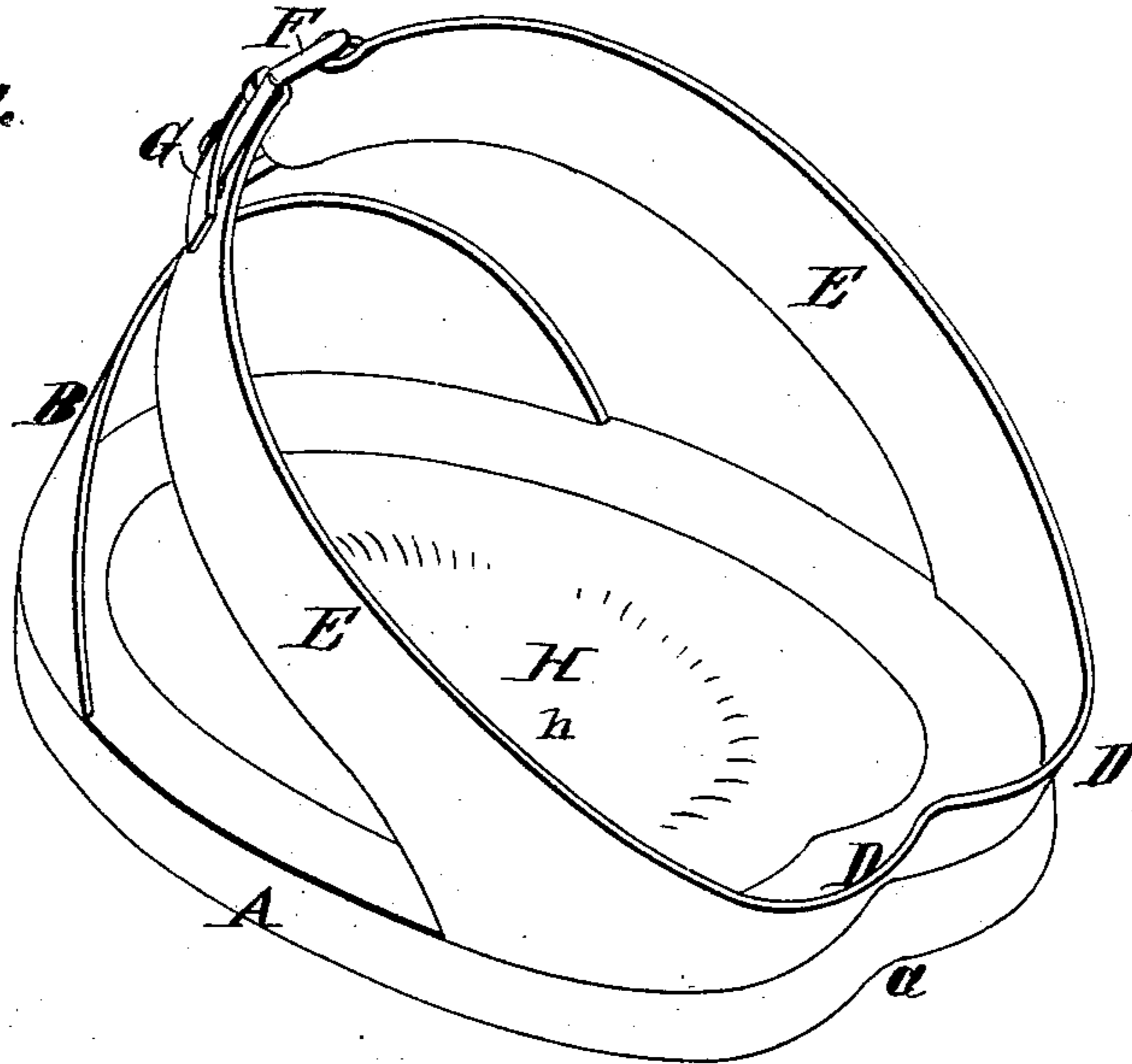
(No Model.)

G. HEIDEL.  
HORSESHOE.

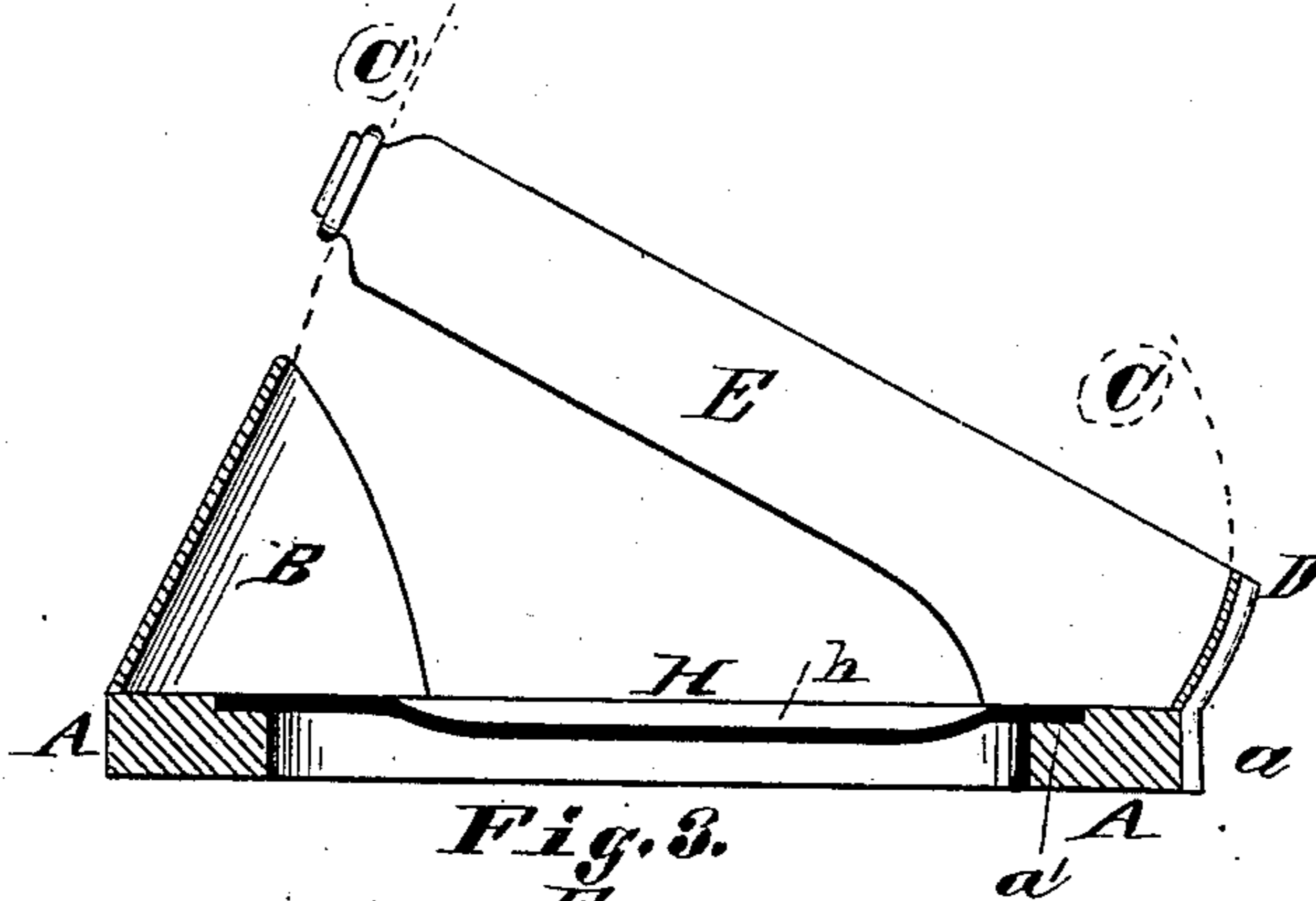
No. 280,819.

Patented July 10, 1883.

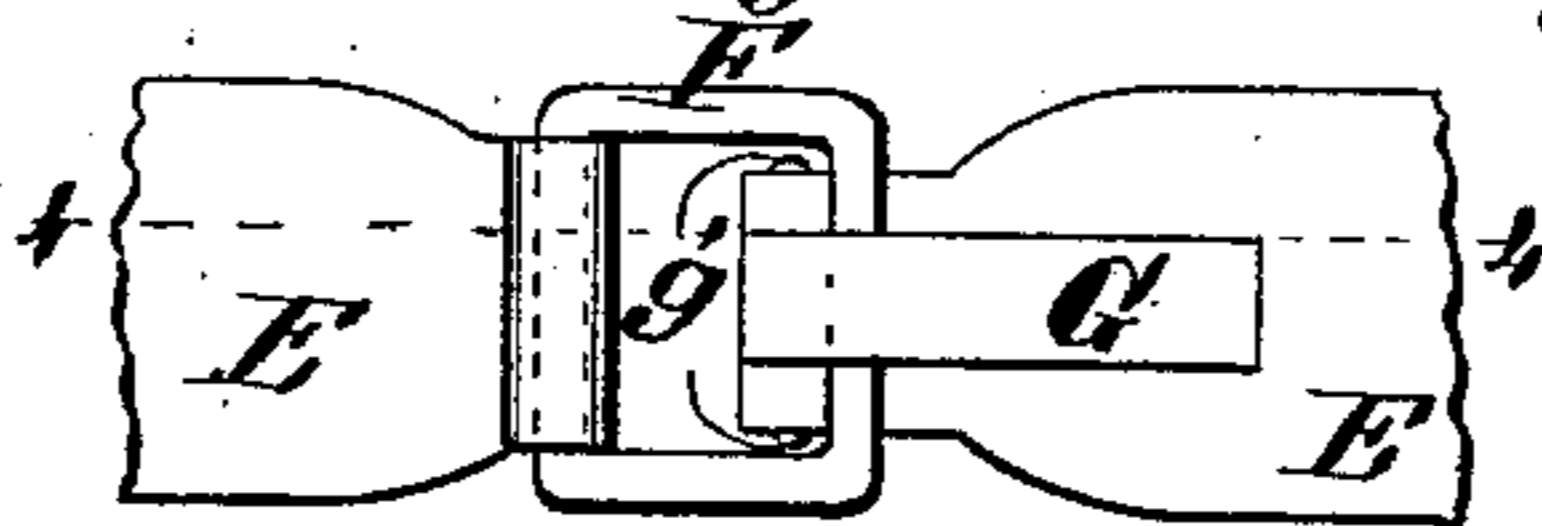
*Fig. 1.*



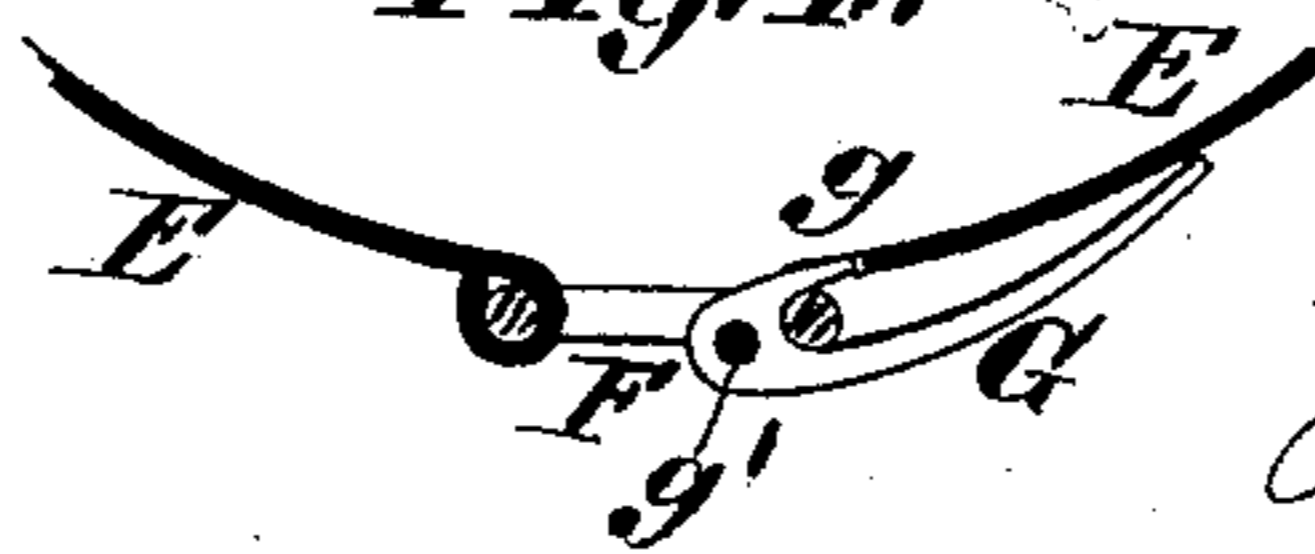
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



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# UNITED STATES PATENT OFFICE.

GUSTAVOS HEIDEL, OF ST. LOUIS, MISSOURI.

## HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 280,819, dated July 10, 1883.

Application filed February 28, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAVOS HEIDEL, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Horseshoes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My improvement applies more especially to the means for the attachment of the shoe to the hoof in such a manner that it is firmly held thereon when in use, and is yet easily detached when desired.

My invention is clearly set forth in the descriptive matter, taken in connection with the claims.

Figure 1 is a perspective view of my improvement. Fig. 2 is a longitudinal section of same. Fig. 3 is a front view of the locking device. Fig. 4 is a section at 4 4, Fig. 3, showing the lever-catch in top view.

A is the horseshoe proper. This is annular in form, as shown, (being closed at the heel *a*.)

B is a cap made fast upon the toe of the shoe, and fitting the toe or fore part of the hoof C.

D is a rounded flange or flanges fitting the heel of the hoof, having straps E extending forward and upward and meeting in front of the hoof, where their ends are provided with a self-locking clasp or buckle consisting of the following parts:

F is a link hinged to the end of one of the straps E. G is a lever-catch hinged to the other one of the straps E. On the inner side of the catch G is a lip, *g*, that engages the outer bar of the link, as shown. The relative position of the hinge or fulcrum *g'* of the catch G and the lip *g* is such that when the parts are locked, as shown, the free end of the lever-catch is held down firmly against the hoof, and the link takes a position somewhat nearer to the hoof than the hinge *g'*, so that the straps E would at the first be drawn somewhat tighter by moving the free end of the catch outward.

It is preferred to make the horseshoe, with its appendages, (cap, heel-plate, and straps,) by casting in one piece out of "cast cast-steel," or of iron subsequently made malleable; but I do not confine myself to this construction, as the heel-piece and toe-piece may be attached to the shoe proper by rivets, screws, or other means. The straps, however, would always form part of the heel plate or piece, because any joint or enlargement here would cause the animal to cut itself by "interference."

H is a sole-plate, that may be dropped into a recess, *a'*, in the shoe before it is put on the hoof. The plate is intended to give protection to the under side of the hoof, and has a depression, *h*, forming a cup to receive a pad or wet sponge.

I claim as my invention—

1. The combination, in a horseshoe, of the toe-piece B, heel-piece D, extending around the heel of the hoof and attached to or forming part of the shoe, and the straps E, formed in one piece with the heel-piece and fastened in front of the hoof.

2. The combination of a horseshoe, toe-piece B, and the heel-piece D, having straps E, provided with a fastening, the heel-piece to extend around the heel of the hoof of the animal and to form part of the shoe, as set forth.

3. A horseshoe cast in one piece with toe-piece B, heel-piece D, and straps E, substantially as set forth.

4. The combination of a removable horseshoe having a recess, *a'*, and a sole-plate, H, fitting the recess, and having a depression, *h*, as set forth.

5. The horseshoe consisting of removable shoe A, having a recess, *a'*, toe-piece B, heel and strap piece D E, and removable sole-plate H, fitting in said recess, as set forth.

GUSTAVOS HEIDEL.

Witnesses:

SAML. KNIGHT,  
ALBERT G. FISH.