No. 639,143. Patented Dec. 12, 1899.

G. H. BRESSER.

HORSESHOE.

(Application filed Mar. 7, 1899.)

(No Model.)

Fig. 1.

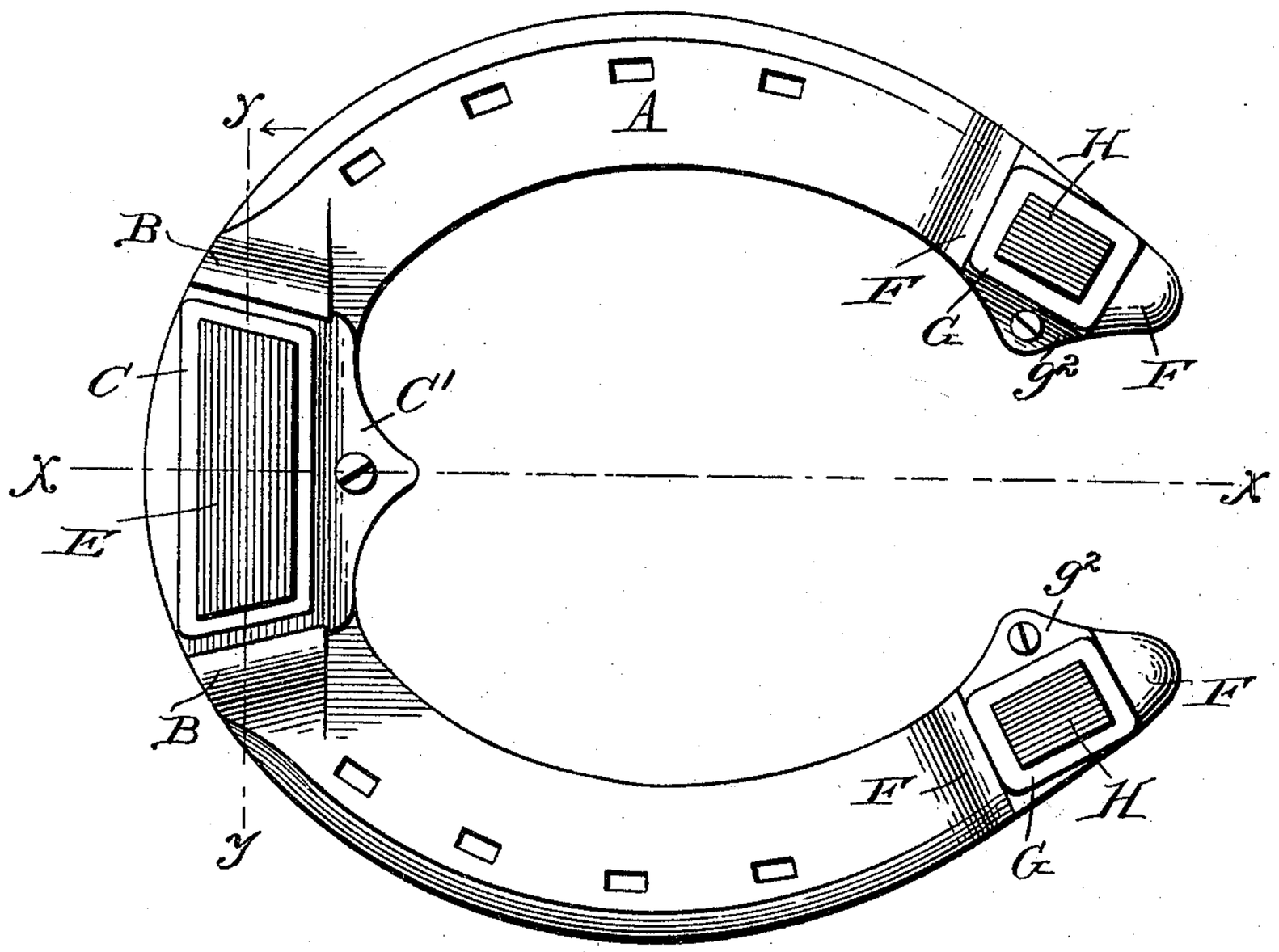


Fig. 2.

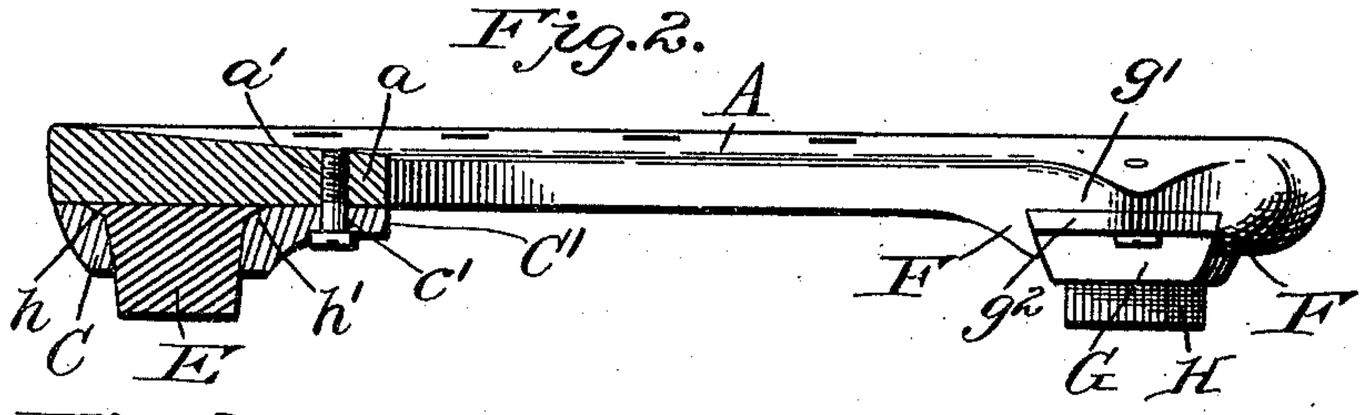


Fig. 3.

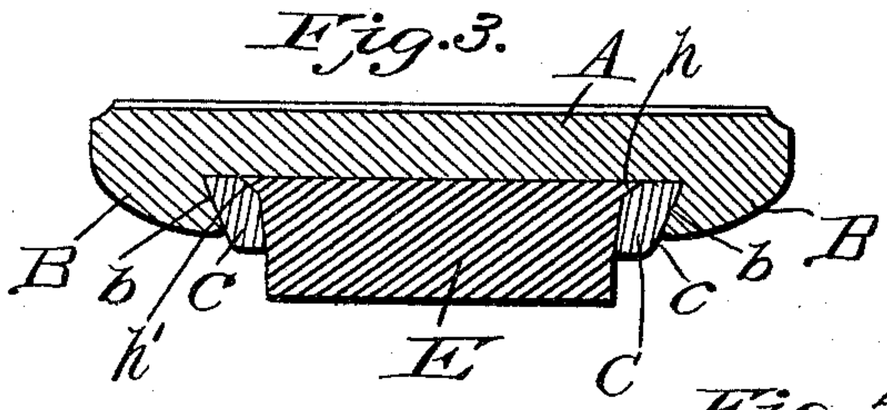


Fig. 4.

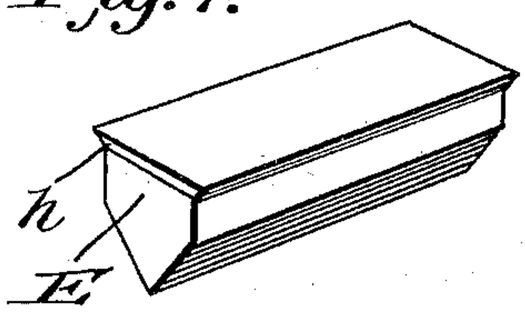
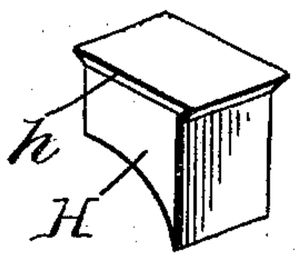


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GOTLIEB H. BRESSER, OF BURLINGTON, IOWA.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 639,143, dated December 12, 1899.

Application filed March 7, 1899. Serial No. 708,150. (No model.)

To all whom it may concern:

Be it known that I, GOTLIEB H. BRESSER, a citizen of the United States, and a resident of Burlington, in the county of Des Moines and State of Iowa, have invented certain new and useful Improvements in Horseshoes; and I do 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 of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a bottom plan view of a shoe having my invention applied thereto. Fig. 2 is a section on the line $x\,x$, Fig. 1. Fig. 3 is a section on the line $y\ y$, Fig. 1. Fig. 4 is a perspective view of the toe-calk. Fig. 5 is a perspective view of one of the heel-calks.

This invention has relation to certain new and useful improvements in horseshoes, and is designed to provide a shoe with means whereby different forms and styles of calks may be used interchangeably on the same shoe without removing the shoe from the foot of the horse.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claim.

Referring to the accompanying drawings, the letter A designates a horseshoe, which may be made in various styles, sizes, and shapes. It is provided at its toe portion on its lower or tread face with lugs or projections B, one on each side of the center. The inner faces of the said lugs are undercut or underbeveled, as indicated at b, said faces also converging toward the rear, whereby they form between them a dovetailed wedge-seat for a detachable calk-holding device C. This device C consists of a slotted block or frame having beveled side faces c to fit and form a dovetailed joint with the underbeveled faces b of the lugs or projections B. Said device is also of wedge form to fit the wedge form of the seat. It is also provided with a reduced rearwardly-offset flange C′, perforated to form a screw-seat c', and the corresponding portion of the shoe is formed with inward offset a, perforated at a' to form a registering screw-seat.

E designates a calk which is designed to fit removably the slot of the calk-holding device, as shown, being inserted into the same from the upper side of said device. The walls of said slot are preferably beveled, in which case the faces of the calk are correspondingly beveled.

The heel portion of the shoe is formed at each side with a pair of corresponding lugs or projections F, similar to the lugs or projections B and which also form between them dovetailed wedging-seats for the reception of calk-holding devices G, which are also similar to the calk-holding device C, although modified somewhat in form and size to suit their different location on the shoe. The heel portions of the shoe are also formed with inward projections g', similar to the projection a, above described, and which form seats or bearings for inwardly-projecting reduced flanges g^2 of the holders G, said projections g' and flanges g^2 being provided with registering screw-seats.

H designates removable calks which are designed to be inserted into and held in the slots of the holding devices G.

The calks E and H may be of rubber, cork, or other elastic or yielding material, or they may be of steel, either sharp or blunt, it being the purpose of the invention, as above stated, to provide for the use of any desired form of calk interchangeably upon the shoe. They should, however, be provided at their upper ends with flanges h for the purpose of preventing them from forcing through the slots of the holding devices. To receive these flanges, the surrounding walls of the slots may be recessed or cut away, as indicated at h'.

To renew a calk or to remove the same when worn out and replace it by another, the calk-holder is detached from the shoe by removing the screw which secures it. The old calk is then removed, a new one inserted, and the holder is then refastened to the shoe. This can be done very readily and quickly without removing the shoe from the foot.

The manner in which the securing-screws for the calk-holding devices are seated protects them from coming in contact with the

ground, and thus becoming worn to such an extent as to render their removal difficult.

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

The combination with a horseshoe having its lower face provided with lugs or projections arranged in pairs, and having converging underbeveled inner faces, said shoe also having an inward projection adjacent to each pair of said lugs, of calk-holding devices removably seated and secured between the said lugs, and formed with inwardly-offset flanges, and calks removably held in said holding devices, said inward projections of the shoe and the offset flanges of the holding devices having registering screw-seats, substantially as specified.

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

GOTLIEB H. BRESSER.

Witnesses:

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