

No. 635,242.

Patented Oct. 17, 1899.

E. A. FRYDENLUND.
HORSESHOE.

(Application filed Apr. 7, 1899.)

(No Model.)

Fig. 1.

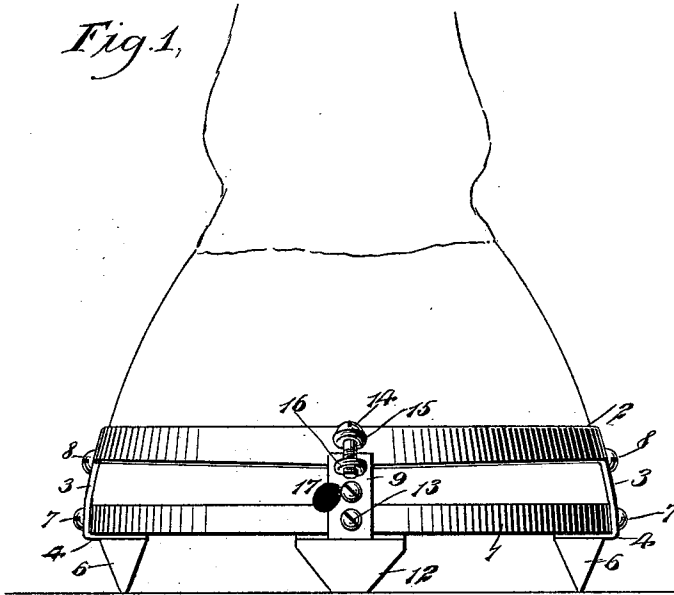


Fig. 2.

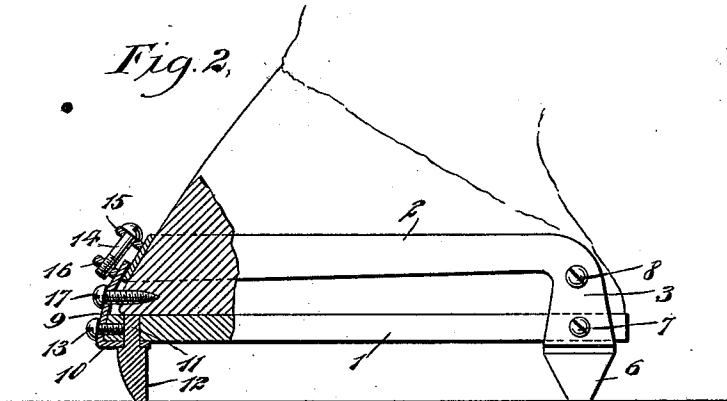
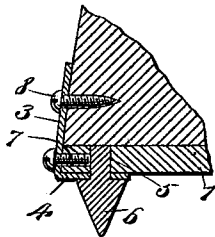


Fig. 3.



WITNESSES:

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ERIK ANDREAS FRYDENLUND, OF LAKOTA, NORTH DAKOTA.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 635,242, dated October 17, 1899.

Application filed April 7, 1899. Serial No. 712,042. (No model.)

To all whom it may concern:

Be it known that I, ERIK ANDREAS FRYDENLUND, of Lakota, in the county of Nelson and State of North Dakota, have invented a new and Improved Horseshoe, of which the following is a full, clear, and exact description.

This invention relates to improvements in horseshoes; and the object is to provide a shoe of simple construction that may be secured to the hoof of a horse without the use of nails, and, further, to provide calks that may be quickly removed and replaced with new ones or others differing in shape or sharpness.

I will describe a horseshoe embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a horse's hoof, showing a shoe embodying my invention as applied thereto. Fig. 2 is a partial side elevation and partial section of the same, and Fig. 3 is a section showing the means of attaching the heel-calks.

Referring to the drawings, 1 designates a shoe, which of course will be shaped to the horse's hoof in the usual manner. This shoe is secured in place by means of a metal band 2, which will preferably consist of steel, so as to secure lightness with a sufficient degree of strength. This band 2 passes along the sides of the hoof and around the front, and at its rear end it is turned downward, as at 3, and then inward, as at 4, to engage against the under side of the shoe 1 near the heel portion. The inwardly-turned portion 4 is provided with an opening registering with an opening through the shoe 1, and removably engaged in these openings is the tang portion 5 of a heel-calk 6. The calk is held in place by means of a screw 7, which passes through an opening in the downwardly-extended portion 3 and engages in a tapped opening formed transversely in the shoe, said screw 7 being of a sufficient length to impinge against the tang 5. To more securely hold the heel portion of the shoe, screws 8 may be passed

through the downwardly-extended portions 3 of the band 2 and into the hoof.

A clamping-strip 9 has a portion 10 extended underneath the shoe 1 at the toe portion, and this inwardly-extended portion 10 is provided with an opening coincident with an opening in the shoe 1, and these openings are designed to receive the tang 11 of the toe-calk 12. This toe-calk 12 is held removably in place by means of a screw 13, which passes through an opening in the clamping-strip 9 and into a tapped opening in the shoe to impinge against the tang 11.

A clamping-screw 14 passes loosely through a lug 15 on the toe portion of the band 2 and engages with a tapped lug 16 on the clamping-strip 9. Obviously by means of this screw 14 and as the band 2 engages with the hoof at a portion of less diameter than that engaged by the shoe the shoe may be tightly drawn against the bottom of the hoof, and when so drawn it may be securely held by means of a screw 17, which passes through the clamping-strip 9 into the hoof.

By this construction it is evident that the calks may be easily removed as desired without removing the whole shoe from the hoof, as it is only necessary to loosen the fastening-screws. Further, it is evident that the shoe 1 may be provided with the ordinary nail-holes, so that nails in addition to the band 2 may be employed for securing the shoe or nails may be used without the band.

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

1. The combination with a horseshoe, of a clamping-band having its heel portions turned downward and then inward to engage against the under side of the shoe, the said inwardly-turned portions having openings for registering with openings in the heel portions of the shoe, calks for removably engaging in said openings, a clamping-strip connecting with the clamping-band and having its lower end turned under the toe portion of the shoe and provided with an opening for registering with an opening in the shoe, and a toe-calk for removably engaging in said openings, substantially as specified.

2. The combination with a horseshoe, of a

clamping-band having its heel portions turned
downward and then inward to engage against
the under side of the shoe, the said inwardly-
turned portions having openings for register-
5 ing with the openings in the heel portions of
the shoe, calks having tangs to pass into said
openings, clamping-screws for engaging with
the tangs, a clamping-strip having a portion
extended underneath the toe portion of the
10 shoe and provided with an opening register-

ing with an opening in the toe portion of the
shoe, a calk having a tang adapted to engage
in said openings, a clamping-screw for en-
gaging with the tang, and a clamping con-
15 nection between said clamping-strip and the
band, substantially as specified.

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Witnesses:

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