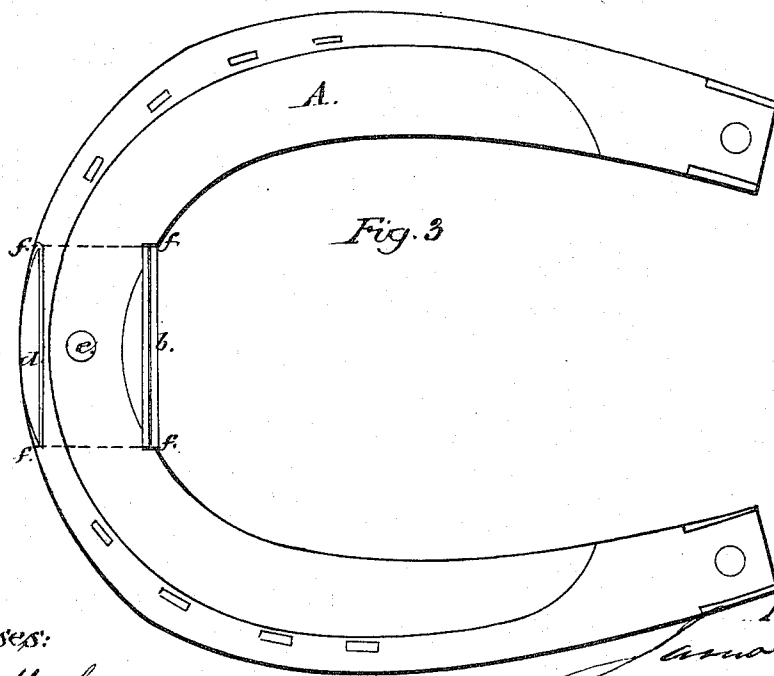
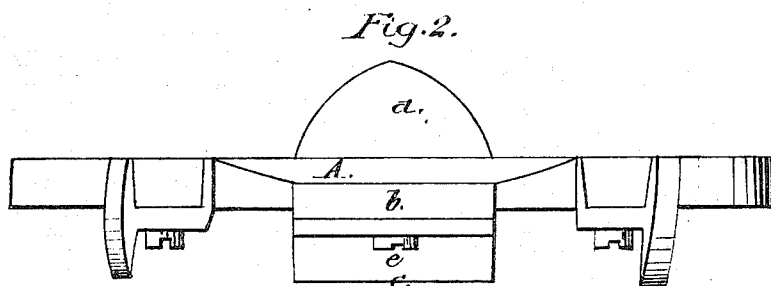
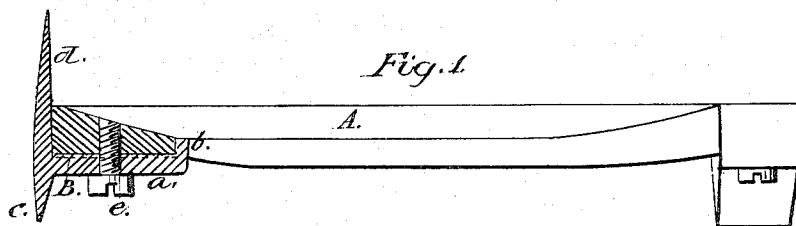


J. Jorey.

Horse-Shoe.

N^o 88.304.

Patented Mar. 30, 1869.



Witnesses:
A. L. Wallenberg
A. R. Wright

Inventor:
Jama Jorey
per J. G. Brown & Naylor
attys

United States Patent Office.

JAMES JOREY, OF WESTVILLE, CONNECTICUT.

Letters Patent No. 88,304, dated March 30, 1869.

IMPROVEMENT IN 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, JAMES JOREY, of Westville, in the county of New Haven, and State of Connecticut, have invented a new and useful Improvement in Horse-Shoes; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principle of my said improvement, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim, and desire to have secured to me by Letters Patent.

This invention relates to a new and useful improvement in that class of horse-shoes which are provided with adjustable or removable calks; and

It consists in having the calk, clamp, and a clip, all combined in one piece, and made out of a single piece of metal, substantially as hereinafter fully shown and described, whereby considerable economy is effected in manufacturing horse-shoes of the kind above specified, and, at the same time, a very secure connection of the calk, clip, and clamp, to the shoe, obtained.

In the accompanying sheet of drawings—

Figure 1 is a longitudinal vertical section of my invention.

Figure 2, a rear-end view of the same.

Figure 3, a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the several drawings.

A represents a horse-shoe, which is bent in the usual form, or shape, but has no calks or clips permanently attached or formed on it.

B represents what may be termed a clamp, constructed of a flat plate, *a*, bent upward at its rear end, as shown at *b*, and having a downward projection, *c*, at its front end, the pendent projection *c* forming the front, or toe-calk of the shoe.

Besides this pendent projection, there is an upright one, *d*, directly above and in line with *c*.

This upright projection is a clip, which, when the shoe is attached to the foot of the horse, bears against the front side, or wall of the hoof, and serves to retain, or aid in retaining the shoe in proper position.

Hitherto, this clip has been made on the shoe, and permanently connected therewith, either by striking,

or swaging up a portion of the shoe. This adds materially to the labor and expense of manufacture. By my improvement, the calk, clip, and clamp, are all made and formed in one piece, separate from the shoe. This may be done by means of a swage, or by rolling, at a very moderate expense.

The clamp B is fitted to the under side of the shoe, and secured thereto by a screw, *e*, the front and rear sides of the shoe being notched out, as shown at *f*, the front notch receiving the lower part of the clip *d*, and the rear one receiving the upper part of the projection *b*, at the rear end of the plate *a* of the clamp.

By this arrangement, all lateral movement of the calk, clip, and clamp, is prevented, and forward and backward displacement of the same avoided, by the clip bearing against the front edge of the shoe, and the upright projection *b* of the plate *a* of the clamp bearing against the rear edge of the shoe, the screw *e* holding the clamp firmly to the under side of the shoe.

This invention is applicable to the heel as well as to the toe-calks of horse-shoes, the heel-calks having clips and clamps formed in one piece with them, substantially the same as described for the toe-calk.

I do not claim a removable or detachable calk for a horse-shoe, for they have been previously used and arranged, or applied in various ways; neither do I claim a clip in itself considered, for they have been used for an indefinite period, but always, so far as I am aware, swaged, or struck up from the shoe, and, consequently, permanently attached thereto, or forming a part of the same.

I do not claim, broadly, forming the calk, clip, and plate, to which they are attached, in one piece, as such construction is old; but,

What I do claim as new, and desire to secure by Letters Patent, is—

The plate B, provided with calk *c* and clip *d*, on the forward end, and clamp *b* on the rear end, all constructed in one piece, and fitted between the shoulder *f* on the shoe, and secured to the latter by means of the screw *e*, as herein set forth and shown.

JAMES JOREY.

Witnesses:

GARDNER MORSE,
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