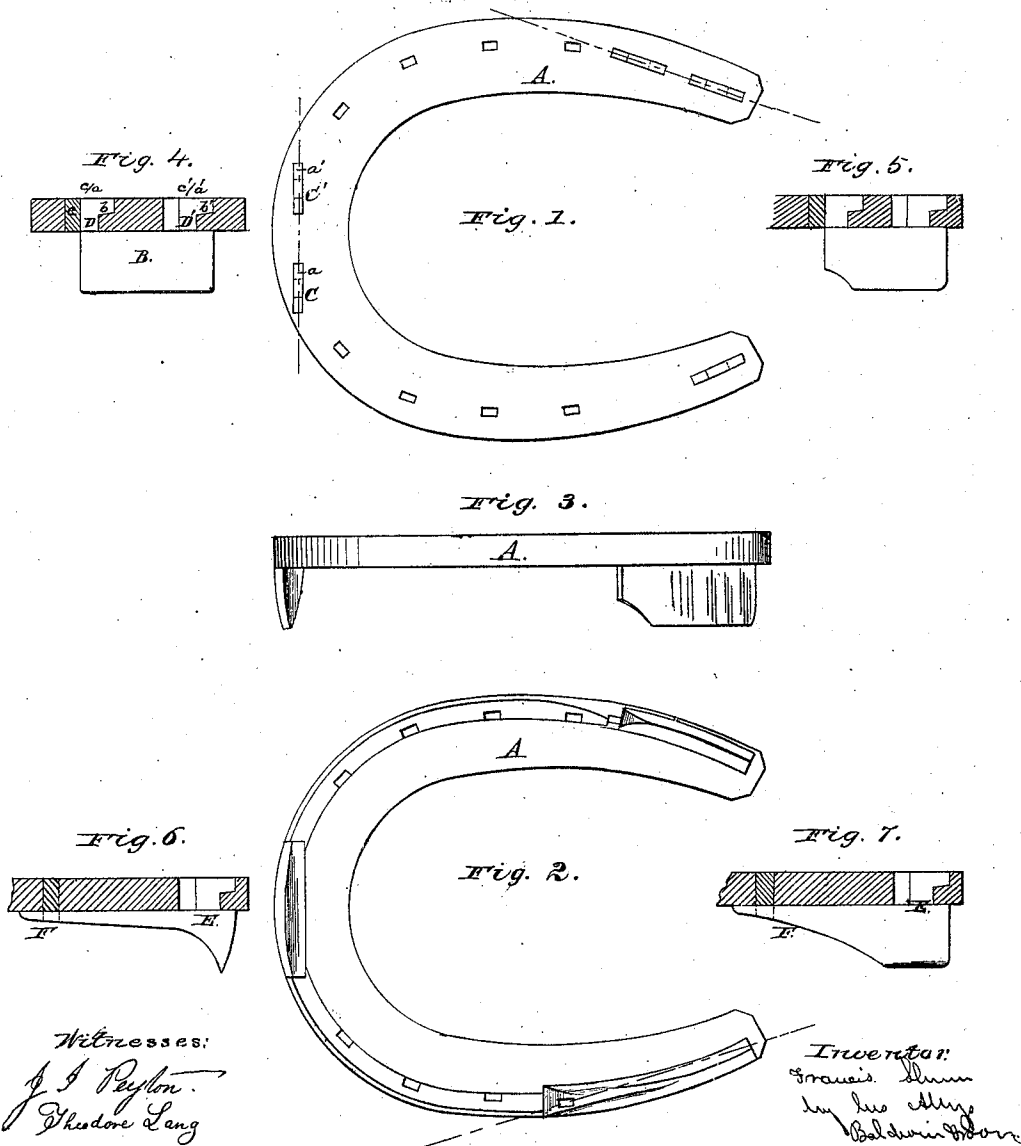


*F. Shinn,
Horseshoe,*

No 55,374,

Patented June 5, 1866



UNITED STATES PATENT OFFICE.

FRANCIS SHINN, OF ROCKFORD, ILLINOIS.

IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 55,374, dated June 5, 1866.

To all whom it may concern:

Be it known that I, FRANCIS SHINN, of Rockford, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Horseshoes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 represents the upper side of a horseshoe on which my improvement is shown. Fig. 2 is the under side of the same. Fig. 3 is an edge view thereof. Fig. 4 is a front view of the toe, showing the mode in which it is secured to the shoe. Fig. 5 is a view of one of the calks, showing its mode of attachment; and Figs. 6 and 7 are views of calks secured in place by a nail that fastens the shoe.

It is the object of my invention to so attach the toe and calks of horseshoes that they may be removed with facility without removing the shoe, and be held in place by one of the nails, which also serves to fasten the shoe to the horse's foot; and to this end my invention consists in placing one or more slots in the shoe for each toe or calk, having a depression at one end of the slot to receive a projecting hook or hooks upon the toe or calk, and holding the toe or calk in place by a nail or nails that serve at the same time to hold the shoe to the hoof.

The plate of the shoe A is bent to the form of the hoof, and grooved and punched to receive the nails in the usual manner.

To receive the toe B, the plate A is punched at C and C', near the center of the plate, and at the top part of the plate on one side of the punched holes C and C' a depression is made as shown at *a* and *a'* in Fig. 4. The toe B has on each side a stud, D and D', of a less width than the punches C and C', with a hook, *b* and *b'*, of a length and breadth and thickness to fill the depressions *a* and *a'* in the plate A, the plane side of the stud on one end of the toe being flush with the outside of the toe. The plate has a nail-hole, *c*, so punched that when the toe is inserted in the plate and pushed in the direction to force the hooks of the toe into the depressions of the plate, then the insertion of a nail into the hole *c* will hold the toe securely in place on

the plate; and when the nail is drawn the toe can be slipped to that side, which will release its hooks and be removed from the plate. The same method may be used to attach the calk to the plate, as shown in Fig. 5, where the calk is shown as formed with two hooks passing into depressions in the shoe and secured by a nail passing through the hole in the shoe at the inner edge of the calk. In Figs. 6 and 7 I have shown a mode of attaching the calk, by a single hook, E, to the plate A, and a nail passing through both the calk and plate at F. In uniting the calk to the plate, in the latter method, a hole is punched in the rear end or heel of the plate, with a depression for the hook of the stud on the calk, and when the stud and hook are forced into the hinder end of the hole and the depression a nail-hole is punched at the front end of the calk to register with one of the nail-holes in the plate; and when the nail is driven through both it will hold the calk rigidly to the plate, and both to the hoof. It is manifest that a dovetailed joint between the toe or calk and shoe may be substituted for the hook and depression with the same result.

It is often a relief to the horse to stand on the shoe so that its whole surface shall rest upon the ground; and it is obvious that the ease with which the toe and calks can be removed from the plate, by merely removing a single nail from each, that this can be effected without changing the shoe, and it is manifest that a worn toe or calk can be easily removed and replaced with a sharp one without removing the plate.

What I claim as my invention, and desire to secure by Letters Patent, is—

Attaching the toe or calks of a horseshoe to the plate, substantially as described, so that they shall be held to the plate by a single nail, which at the same time serves to hold the shoe to the hoof, and so that the removal of the single nail which holds a toe or calk shall permit it to be removed or replaced at pleasure without removing the plate.

In testimony whereof I have hereunto subscribed my name.

FRANCIS SHINN.

Witnesses:

PETER H. PLATNER,
B. D. WHITMAN.