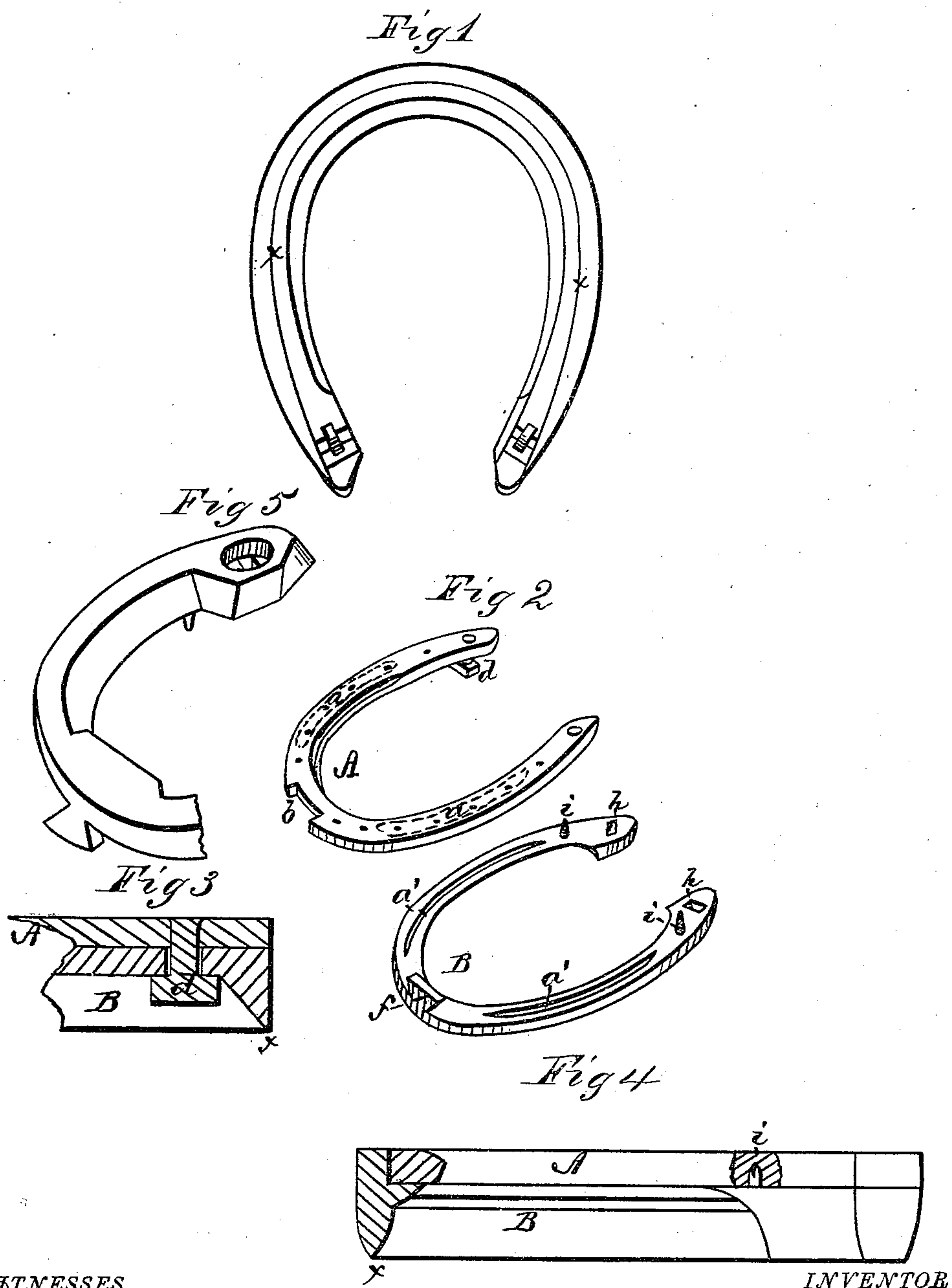


W. D. HARRIS.
Horseshoes.

No. 148,696.

Patented March 17, 1874.



WITNESSES.
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UNITED STATES PATENT OFFICE.

WILLIAM D. HARRIS, OF PERRY CITY, NEW YORK.

IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 148,696, dated March 17, 1874; application filed February 24, 1874.

To all whom it may concern:

Be it known that I, WILLIAM D. HARRIS, of Perry City, in the county of Schuyler and in the State of New York, have invented certain new and useful Improvements in Horse-shoes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention consists in the construction and arrangement of a horseshoe, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a bottom view of my horseshoe. Fig. 2 is a perspective view, showing the two parts of the shoe detached. Fig. 3 is an enlarged section of the heel part thereof. Fig. 4 is an enlarged section of the shoe through the toe, and Fig. 5 is a perspective view from the top of the removable part of the shoe.

A represents the part of the horseshoe which is to be permanently attached to the horse's foot. It is made of the usual form for a horseshoe, with a groove, *a*, on the under side, in which the heads of the nails are placed, the holes for the nails being made through the grooved portion of said part A. At the toe of the shoe A is made a dovetailed recess, *b*, as shown particularly in Fig. 2. At the heel of the shoe, on each side, is a T-shaped rivet, *d*, which extends downward, and may be turned as desired. B represents the movable part of the horseshoe, provided at the toe with a dovetailed projection, *f*, on the upper side to fit in the dovetailed recess *b* in the toe of the stationary part A of the shoe. On the upper side of the part B are grooves *a'*, corresponding with the grooves *a* on the part A for the reception of the nail-heads. Near the heel, on each side of the part B, is an upward-projecting pin, *i*, to enter holes in the under side of the part A of the shoe, after the projection *f* has been slid into the recess *b*. The heads of the rivets *d* pass down through holes or slots

h h in the heel of the part B, into recesses made in the under side thereof, when the rivets are turned with a wrench so as to lock the parts firmly together.

The part B may be made with a sharp bottom edge, *x*, as shown in Figs. 1, 3, and 4, for the winter-time, when it is slippery, and with a blunt surface, *y*, for summer-time.

The movable part B can easily be removed by turning the rivets *d d*, and another substituted, according to the state of the weather, without having to take the horse to a blacksmith-shop.

It will be seen that the slot in the toe of the part A is in the front edge, so that when the projection *f* of the part B is inserted, the metal of said projection extends through and allows a bearing of the hoof thereon. By this means there is no liability of the jamming of the projection; hence the lower part is always in condition to be easily removed. With this mode of connection the projection rests against the bulk of the metal of the upper plate, so that, in use on the horse's foot, there can be no backward or sliding movement of the lower on the upper one. By means of the grooves *a a'* on the two parts the nail-heads are received and protected, and the parts, when placed together, rest flat against each other without leaving any space between them.

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

A horseshoe composed of two plates, one permanently attached to the hoof, and the other attached to it by means of the buttons *d* and dovetailed slot *b*, formed directly in the front edge of the permanent plate, and a corresponding projection, *f*, on the removable plate, the projection extending through the permanent plate and bearing against the hoof, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 5th day of February, 1874.

WILLIAM D. HARRIS.

Witnesses:

ALEXR. STOREY,
GEORGE HARRIS.