

H. D. McCORMICK.
HORSESHOE.
APPLICATION FILED JAN. 29, 1909.

971,138.

Patented Sept. 27, 1910.

Fig. 1.

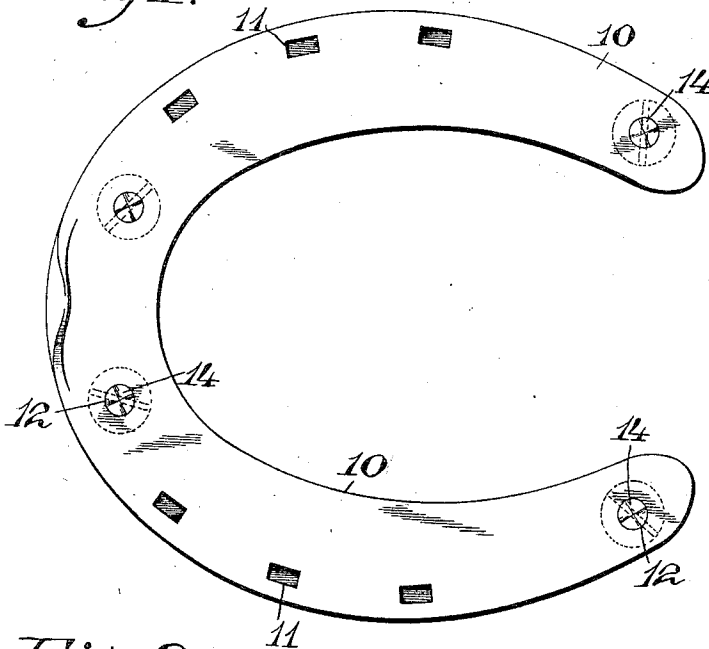


Fig. 2.

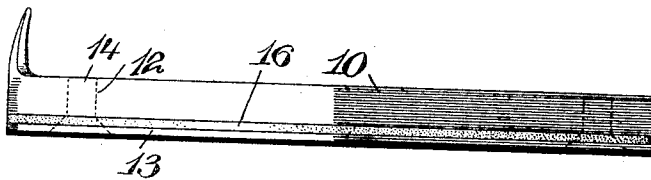
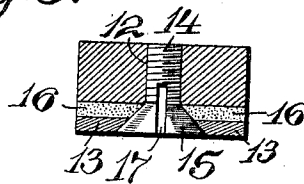


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY D. McCORMICK, OF NEWARK, NEW JERSEY.

HORSESHOE.

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To all whom it may concern:

Be it known that I, HENRY D. McCORMICK, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Horseshoes; and I do hereby 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 figures of reference marked thereon, which form a part of this specification.

This invention comprises a horse-shoe that is adapted to be supplied with screw calks, but which can also be provided with wearing plates or surface plates which are attached through the screw-threaded perforations which can be utilized for the insertion of the calks, these perforations holding screws that hold the wearing plates to the shoe proper.

The present shoe is supposed to be used when the calks, that are adapted to fit in the perforations and which are of a well known type, being used at present by many drivers, have been removed, and the perforations in which the calks are screwed are then utilized for the plates as used in the present invention, since calks, when there is no ice, very soon wear down, and the present plates are adapted to replace them.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 is a top view of a shoe of my improved construction. Fig. 2 is a side view of the same, and Fig. 3 is a cross-section through one part of the shoe, showing the screw in elevation.

The shoe consists of the usual body portion 10 adapted to fit the hoof of the animal and being secured in any well known way, preferably by nails being driven through the perforations 11 in the shoe. The body portion is provided with screw-threaded perforations 12 which are utilized, in a great many shoes having a similar body portion, by inserting screw-threaded calks, these being old and well known and not requiring illustration, but being mentioned to show the adaptability of applicant's device.

A wearing plate 13 is adapted to be secured to the under side of the body portion, which wearing plate can be of any suitable material, but is preferably made of iron or steel, although resilient substances can be

used, and a screw having the screw-threaded stem 14 and the countersunk head 15 is adapted to be inserted in each perforation 12 and thus hold the wearing plate to the body of the shoe. If the wearing plate 13 is made of metal, I prefer to insert a layer or plate 16 which may be of leather, fiber, rubber or similar substances to give resiliency to the shoe.

I am aware that plates of this kind have been secured to body portions of shoes before, but when worn down, the securing means has been so mutilated that the whole shoe is worthless. In my construction I supply the screw with the slot 17 in which a tool can be inserted for securing or loosening the screw, this slot extending beyond the lower edge of the body portion, that is, extending up into the screw-threaded stem 14 so that even if the screw wears down to the under surface of the body portion 10, there is a slot left in the screw that can be used to unscrew the stem 14 and a new screw inserted when a new wearing plate or plates are installed. The wearing plates can be of any suitable shape, but preferably have their outer edges even with the outer edges of the shoe.

Having thus described my invention, what I claim is:—

A horse-shoe comprising a body portion, a wearing plate, the wearing plate being provided with countersunk perforations, a plate of resilient material placed between the body portion and the wearing plate, the body portion having screw-threaded perforations adapted to be in register with the perforations in the wearing plate, and screws, each screw having a head to fit a countersunk perforation of the wearing plate and also having a screw-threaded stem to enter a perforation in the body portion, each screw having a slot extending from the face of the head to a point far enough beyond the wearing plate to permit the slot being used until the screw is worn away flush with the body portion, the slot terminating short of the end of the screw-threaded stem opposite the head.

In testimony, that I claim the foregoing, I have hereunto set my hand this 23rd day of Jan. 1909.

HENRY D. McCORMICK.

Witnesses:

JULIUS LINDEMAN,
J. WALTER SILES, Jr.