

(No Model.)

H. D. SHAIFFER.
NAILLESS HORSESHOE.

No. 551,407.

Patented Dec. 17, 1895.

Fig. 1.

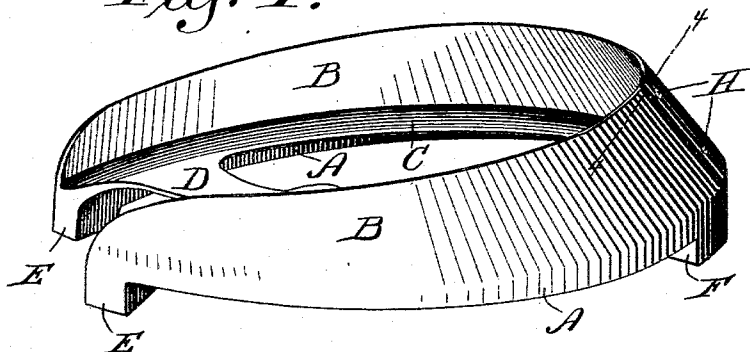


Fig. 2.

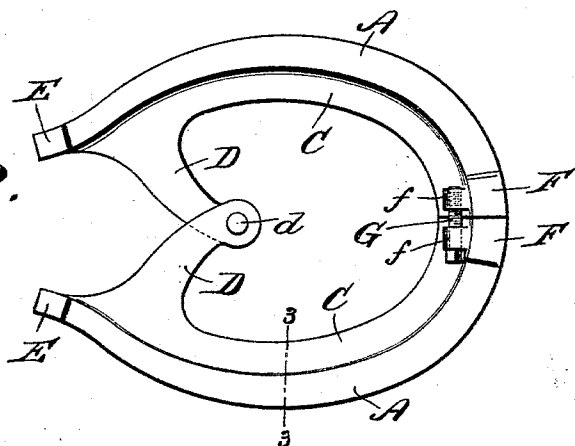


Fig. 3.

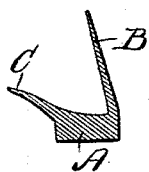
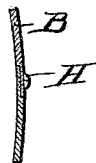


Fig. 4.



Witnesses.
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NAILLESS HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 551,407, dated December 17, 1895.

Application filed March 5, 1895. Serial No. 540,656. (No model.)

To all whom it may concern:

Be it known that I, HARRY D. SHAIFFER, a citizen of the United States; residing at Milwaukee, county of Milwaukee, State of Wisconsin, have invented a certain new and useful Improvement in Horseshoes; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to new and useful improvements in horseshoes; and it consists in the matters hereinafter described, and pointed out in the appended claims.

The object of my invention is to provide an improved form of horseshoe which may be secured to the hoof without the use of nails, and which may be readily removed when desired.

In the accompanying drawings, illustrating my invention, Figure 1 is a perspective view of my improved horseshoe. Fig. 2 is an inverted plan view of the same. Fig. 3 is a detail sectional view taken on line 3 3 of Fig. 2. Fig. 4 is a horizontal detail sectional view taken on line 4 4 of Fig. 1.

Referring by letter to said drawings, A A designate two parts or halves of my improved horseshoe which may be made of any suitable shape and size to fit the hoof.

An upwardly and inwardly extending flange B is provided upon each of the parts or halves A, said flange being arranged so as to rest against the outer surface of the hoof, and a flange C extends inwardly and somewhat upwardly from the inner edge of each of the parts or halves A, said flanges C C being suitably shaped to fit the concave under surface of the margin of the hoof.

Extensions D D are provided upon the flanges C C, which extensions are prolonged inwardly and somewhat forwardly, in the manner shown, and pivoted together, as at d, at the central part of the shoe.

E E designate the heel-calks, and F F the two halves of the toe-calk, one of which halves is formed upon each part A of the shoe.

Apertured lugs f f extend rearwardly beneath the forward parts of the flanges C C in rear of the parts F F of the toe-calk, and a locking screw or bolt G has a screw-threaded

engagement with said lugs in the manner shown in Fig. 2 to hold the forward ends of the parts A A of the shoe together.

As shown more particularly in Figs. 1 and 4, the flanges B B are made to overlap at their forward edges when the two parts of the shoe are brought together, and screws H H are inserted in said overlapping edges to secure the flanges together.

My improved horseshoe may be readily secured to the hoof without the use of nails, it being only necessary to remove the bolt G and the screws H H, in order to swing the two parts A A upon their pivotal connection d so as to open the shoe. The shoe may then be adjusted upon the hoof in an obvious manner; and when in position may be securely fastened by the insertion of the bolt G and the screws H H.

The central part of the shoe being left open, in the manner shown, permits of free access of air to the central under part of the hoof.

By the described construction of the flanges B B and C C to conform to the curved surfaces of the hoof, dirt and small pebbles are prevented from lodging between the shoe and the hoof, and a firm even bearing of all parts of the shoe upon the hoof is insured.

In practice I prefer to construct my improved horseshoes from malleable iron or steel, and the flanges are made tapering toward the edges in such a manner as to enable said flanges to be readily shaped so as to conform exactly to the surfaces of the hoof. By this means the shoes may be readily fitted to any hoof.

In fitting the shoe to a hoof, the hoof may be pared so as to cause the lower edge thereof to rest within the shoe at a slight distance from the angle formed by the outer flanges B B and the base of the shoe, so as to allow of a considerable degree of expansion of the hoof, and to permit the hoof to grow within the shoe without causing pressure upon any part of the hoof.

By the described construction of the under flanges C C to closely fit the concave under surfaces of the hoof the under side of the shoe is given a generally rounded or concave form, within which snow or dirt is not liable to become lodged, as is common with the ordinary forms of horseshoes. This obviates the

necessity of different styles of shoes for use in winter and summer, my improved shoe forming a "snow-shoe" besides being adapted for use in all seasons and on all kinds of roads.

Furthermore, by the described construction of the extensions D D they are caused to rest beneath the frog of the horse's foot in such a manner as to protect the same from injury.

If desired, the screws H H which pass through the overlapping edges of the flanges B B may be arranged to engage with screw-threaded apertures in the inner edge and elongated slots in the outer edge, so as to afford means for adjusting said flanges to correspond with the adjustment of the two parts A A of the shoe by means of the set-screw or bolt G.

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

1. A horseshoe comprising two parts or halves each provided with an upwardly and inwardly extending flange adapted for engagement with the outer surface of the hoof, and an inwardly and upwardly extending flange adapted to rest against the concave under surface of the hoof, a pivotal connection between said last mentioned flanges, and a suitable locking device for detachably securing the front ends of said parts or halves of the shoe together, substantially as described.

2. An improved horseshoe comprising two parts or halves each provided with an upwardly and inwardly extending flange adapted to fit against the outer surface of the hoof, and an inwardly and upwardly extending flange adapted to fit against the curved

under surface of the hoof, inwardly extending projections upon the rear portions of said last mentioned flanges and having pivotal engagement with each other, rearwardly extending lugs upon the under surfaces of the front ends of said parts or halves, and a suitable bolt or screw adapted for detachable engagement with said lugs to secure the shoe to the hoof, substantially as described.

3. An improved horseshoe comprising two parts or halves each provided with an upwardly and inwardly extending flange adapted to fit against the outer surface of the hoof, and an inwardly and upwardly extending flange adapted to fit against the curved under surface of the hoof, inwardly extending projections upon the rear portions of said last mentioned flanges and having pivotal engagement with each other, rearwardly extending lugs upon the under surfaces of the front ends of said parts or halves, a suitable bolt or screw adapted for detachable engagement with said lugs to secure the shoe to the hoof, the forward edges of the first mentioned flanges being arranged so as to overlap, and suitable screws adapted for engagement with said overlapping edges when the shoe is in position upon the hoof, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

HARRY D. SHAIFFER.

Witnesses:

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M. M. WILES.