

(No Model.)

J. F. SEIBERLING,
ELASTIC HORSESHOE.

No. 587,758.

Patented Aug. 10, 1897.

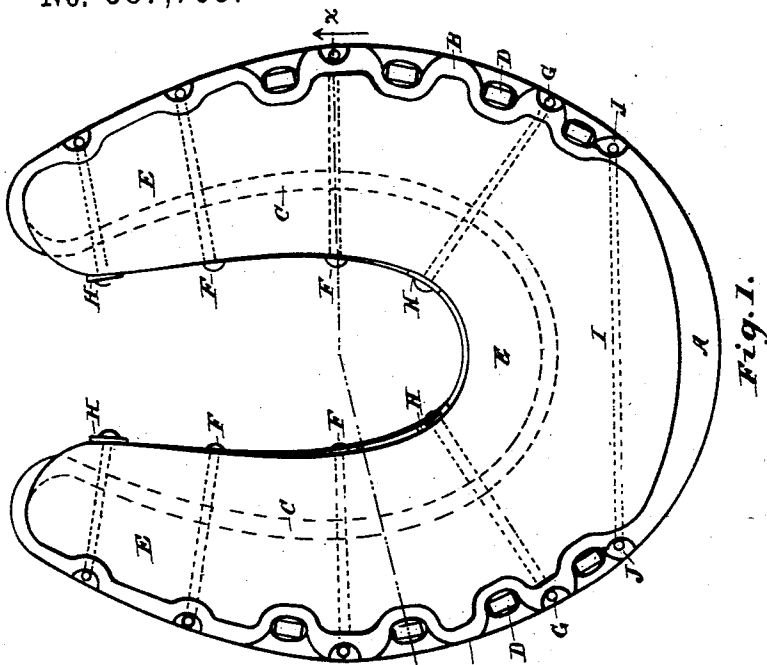


Fig. 1.



Fig. 2.

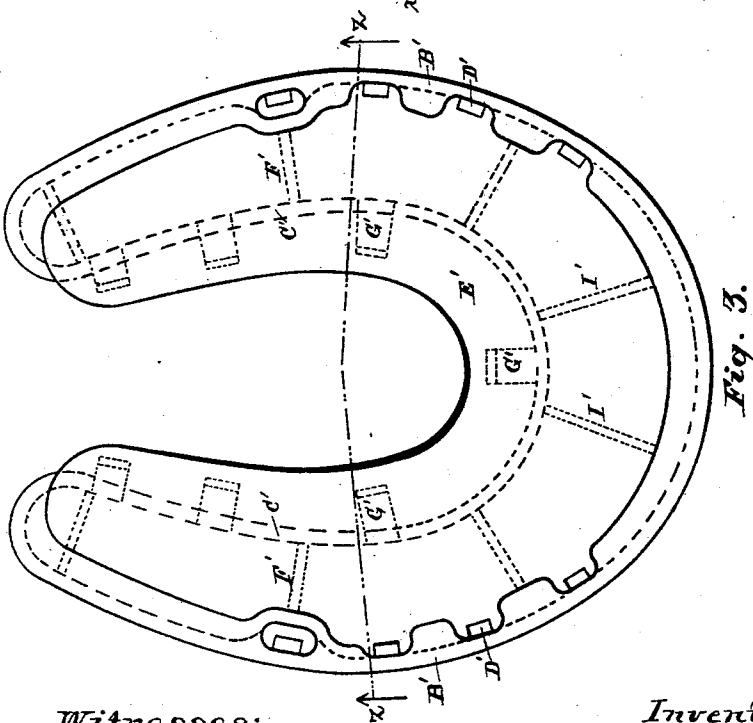


Fig. 3.

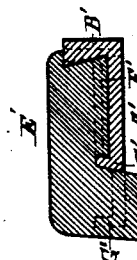


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN F. SEIBERLING, OF AKRON, OHIO.

ELASTIC HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 587,758, dated August 10, 1897.

Application filed August 17, 1896. Serial No. 602,956. (No model.)

To all whom it may concern:

Be it known that I, JOHN F. SEIBERLING, a citizen of the United States, residing at Akron, in the county of Summit and State of Ohio, have invented a certain new and useful Improvement in Elastic Pads for Horseshoes, of which the following is a specification.

My invention has relation to improvements in that class of devices known as "horseshoe-pads" whose object and purpose is to interpose an elastic substance beneath the horse's hoof that shall act as a cushion to prevent jar and shock to the joints of the horse's leg from sudden impact of the hoof with a pavement or other hard road-bed.

The object of my invention is to produce a new and improved device of the class named that shall be easily and securely attached to or removed from the hoof and that shall be effective for the purpose for which such pads are used.

To the aforesaid object my invention consists in the peculiar and novel construction, arrangement, and combination of parts hereinafter described and then specifically pointed out in the claims, reference being had to the accompanying drawings, forming a part of this specification.

In the accompanying drawings, in which similar reference-letters indicate like parts in the different views, Figure 1 is an inverted plan of one form of my improved hoof-pad; Fig. 2, a section of the same at the line $x x$ of Fig. 1; Fig. 3, an inverted plan of a modification of the device, and Fig. 4 a section of Fig. 3 at the line $z z$.

Referring to the drawings, A is a light skeleton shoe or frame adapted to fit the hoof in the ordinary manner, provided with downwardly-projecting flanges B C along its outer and inner edges, respectively, the flange B being curved inwardly about the nail-holes D to form recesses for the nail-heads, and is deeper than the flange C.

E is a pad, of vulcanized rubber or like material, having its upper face conformed to fit the lower face of the shoe A and to extend within the hollow of the shoe and project upward slightly above it, so as to meet and press against the inner arch of the hoof.

The pad is held in place by a series of detachable metallic rivets or pins F, that pass

through the flanges B C and pad E, their outer ends being turned up into hooks G, that rest in small recesses in the outer face of the outer flange B, and their inner ends having flat heads, or being riveted on washers H, that rest against the inner face of the pad E.

The front part of the pad is retained by a long rivet I, that passes through the toe of the pad and holes in the flange B, each end being turned up in recesses J in said flange in the same manner as the rivets F.

The shoe A is fastened to the hoof in the ordinary manner of attaching horseshoes, and the pads may be removed and new ones substituted without removing the shoe by withdrawing the rivets F and I, taking away the worn pad, and replacing it with a new one, fastening it in the same manner. This form is especially designed for occasions where it is not desirable or convenient to have the pad vulcanized in the shoe before applying it.

The modification shown in Figs. 3 and 4 is designed to be adopted where there are facilities for vulcanizing the pad in the shoe before it is fastened to the hoof, or renewing it by the same process where it has been temporarily removed, and in this modification the parts are indicated by similar letters with prime-marks. In this modification A' is the metallic skeleton shoe, with the flanges B' C' projecting from it, but having the lines of the inner faces of these flanges converge, thus making the channel dovetailed in cross-section. The rubber pad E' in this form is placed in position before vulcanizing and vulcanized in place, and is retained by cross-rods F', that are fastened in and extend across between the flanges B' C', (shown in dotted lines in the figures,) and further fastened by hooks G', that are made fast in the inner flange C' and project toward the center of the shoe, and are similarly shown by dotted lines, and the toe of the shoe is held by two similar cross-rods I', that subserve the purpose of the cross-rod I in the other form. By this construction and arrangement I secure a cushioned shoe that is simple and effective and easily applied by any blacksmith.

In constructing these pads it is advisable to make the part that extends up inside of the shoe slightly full in depth to insure its pressing against the arch of the hoof, the sur-

plus material, if any, being readily removed when the pad is fitted to the hoof.

I claim as my invention—

1. As an improved article of manufacture,
5 a skeleton horseshoe having flanges depending in the same direction from its outer and inner edges, and a series of hooks attached to said shoe and projecting into the inner loop of the shoe substantially as shown and described and for the purpose stated.
2. As an improved article of manufacture,
15 a skeleton horseshoe having flanges depending in the same direction from its outer and inner edges, with a series of oppositely-disposed holes in said flanges to receive transverse rivets, and a series of hooks attached to said shoe and projecting into the inner loop thereof, substantially as shown and described and for the purpose specified.
3. The combination with the skeleton shoe
20 and its flanges, and the elastic pad adapted to fit between said flanges and extend within the shoe, of the hooks rigidly attached to said shoe and extending within the loop of said shoe and embedded in said pad, substantially as shown and described.
4. The combination with the skeleton shoe
25 having edge flanges and the rubber pad adapted to fit between said flanges, of the trans-

verse rods extended through said portion of said pad and flanges at intervals, and the hooks attached to said shoe and embedded in said rubber, substantially as shown and described.

5. An improved elastic horseshoe, consisting of a metallic shoe adapted to be attached to the hoof, and having a channel in its under face; and a rubber pad having its upper face conformed to fit said shoe and the hoof within the shoe and about the frog, and adapted to cover and extend below the inner flange of the shoe; and means substantially as shown for retaining said rubber pad in the channel of said shoe, substantially as shown and described.

6. As an improved article of manufacture, a rubber pad having its upper face conformed to fit and extend below a channeled shoe, and to project within the shoe and about the frog to constitute an elastic pad for the hoof and shoe, substantially as shown and described.

In testimony that I claim the above I hereunto set my hand.

JOHN F. SEIBERLING.

In presence of—

C. P. HUMPHREY,
C. E. HUMPHREY.