

J. STICKNEY.

Horse-Shoes.

No. 133,549.

Patented Dec. 3, 1872.

Fig 1

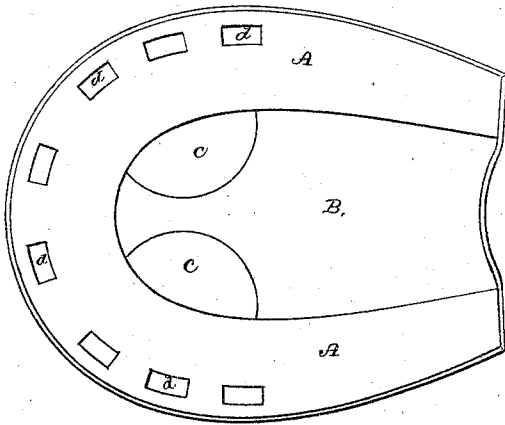


Fig 3.

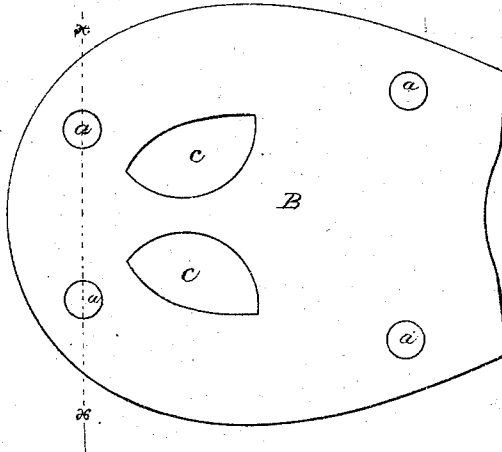


Fig 2.

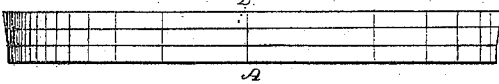
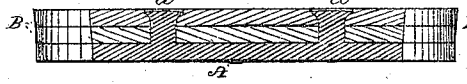


Fig 4.



Witnesses.

Geo. Harris

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UNITED STATES PATENT OFFICE.

JEREMIAH STICKNEY, OF MANCHESTER, NEW HAMPSHIRE.

IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 133,549, dated December 3, 1872.

To all whom it may concern:

Be it known that I, JEREMIAH STICKNEY, of Manchester, in the county of Hillsborough and State of New Hampshire, have invented a new and useful Improvement in Horseshoes; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, in which—

Figure 1 denotes an under-side view; Fig. 2, a side view; Fig. 3, a top view of a horseshoe constructed in accordance with my improvement; and Fig. 4 is a transverse section on the line *x x* of Fig. 3.

My present invention, like that patented by me on the 7th day of May, 1872, is especially designed for horses having contracted hoofs or tender feet; its object being to furnish a shoe which, while possessing all the advantages of the said patented shoe, shall more effectually resist the abrading action of the ground or pavement, and thereby increase the effectiveness and durability of the shoe; and my invention consists in combining with the said patented shoe or the leather portion thereof a cast-steel or metallic shoe, having studs or rivets projecting therefrom, and by which the leather is firmly secured to the under surface of the steel portion. My invention is an improved article of manufacture, and termed by me "the combination shoe," composed of one or more pieces of leather and a cast-steel or metallic shoe, so combined as to form a single article of commerce.

I am aware that horseshoes composed wholly of metal as well as entirely of leather have been made; but I am not aware that the two have been so constructed and combined as to constitute a unitary article of merchandise. I am further aware that strips or plates of leather have been placed across the hollow of a horse's hoof, and a metallic shoe disposed over the edges of the same, and the whole nailed together to the hoof. I am also aware that pads or cushions of leather and India rubber have also been placed between the shoe and hoof of an animal; but such were not connected with the shoe so as to form a part thereof. Such I do not claim.

In carrying out my invention I cut or "die" out, in accordance with the thickness of the elastic cushion desired, and by means of a die of the requisite shape, one or more pieces or plates of leather, having the form as shown in Fig. 3. These pieces or plates I next reduce to an even thickness; and next pass them through or between compression-rollers, so as to condense the same more or less. The face or tread of the shoe I make of metal—preferably of cast-steel—and with four or any other suitable or desirable number of studs projecting from the under surface thereof and at right angles thereto. These studs pass through holes made in the leather, and are upset on the latter, thus firmly connecting the rigid and the yielding parts of the shoe together. The metallic or rigid part of the shoe has a series of elongated rectangular holes, *d*, made through the same, of a size sufficient to receive the heads of the nails and allow them to sink below the surface thereof, the nails, when driven, being held mainly by the leather or inside portion of the shoe. The leather, being elastic, becomes a spring to some extent, so that the nails, in clinching, cannot be drawn too tightly, as is often the case with the metallic shoe as ordinarily constructed.

In the said drawing, A denotes the steel or metallic portion of the shoe, and *a a*, &c., the series of rivets or studs cast thereon; B, the lining or leather portion of the shoe. *bb*, &c., are the nail-holes formed in the part A, and *cc* are holes formed through the lining or leather part of the shoe, the same being to allow of the proper ventilation and cleaning of the frog.

Having described my invention, what I claim is—

The above-described horseshoe, composed of the metallic part A, constructed as specified, and provided with studs *a a*, &c., and the leather lining B, combined and connected together substantially as set forth, as an improved article of manufacture.

JEREMIAH STICKNEY.

Witnesses:

F. P. HALE,
F. O. HALE.