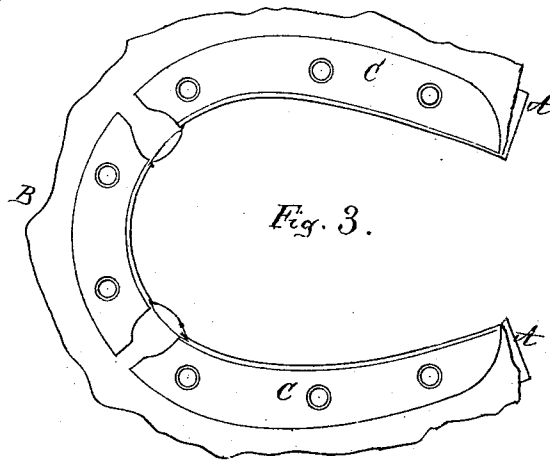
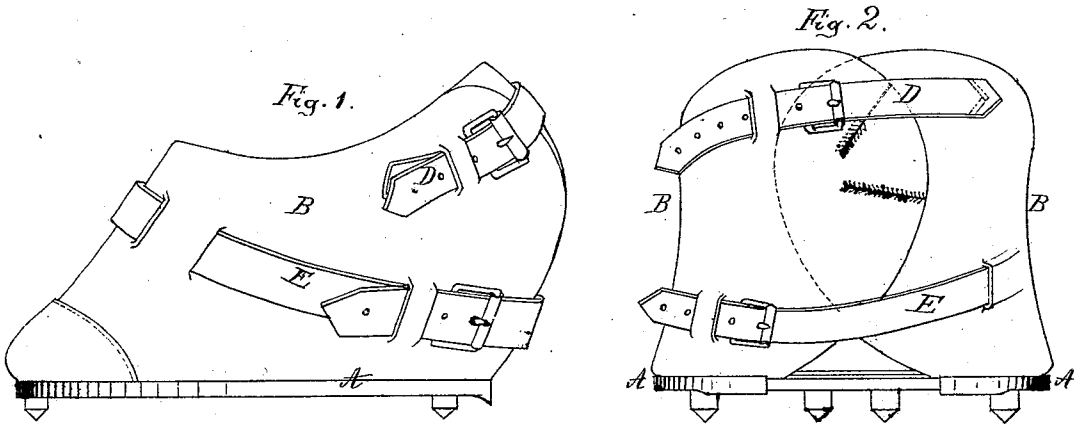


H.G. & E.M. Haedrich,

Horseshoe.

No. 105,068.

Patented July 5, 1870.



Witnesses:

Chas. Jacobs

J. K. White

Inventors:

H. G. & E. M. Haedrich.

Per

J. M. Alexander

Att'y.

United States Patent Office.

HENRY G. HAEDRICH AND EDWARD M. HAEDRICH, OF PHILADELPHIA,
PENNSYLVANIA.

Letters Patent No. 105,068, dated July 5, 1870.

IMPROVEMENT IN COMBINED BOOT AND SHOE FOR HORSES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, HENRY G. HAEDRICH and EDWARD M. HAEDRICH, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Combined Horseshoes and Boots; and do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

Our invention relates to the device for which Letters Patent No. 96,104 were granted to H. G. Haedrich, October 26, 1869, and is designed to cheapen the construction of such combined shoes and boots, as well as to make them more effective and generally useful.

It consists, first, in the form of the top and the mode of applying the straps thereto; and, second, in the mode of securing the top to a shoe.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a side elevation, and

Figure 2 a rear view of the combined shoe and boot.

Figure 3 is a plan view, the top being broken to show the manner in which the same is secured to the shoe.

A represents the shoe, and

B the top of leather or other suitable material.

The top B is turned under, so that its lower border lies flat on the upper surface of the shoe, and a plate or strip, C, of metal, leather, or other suitable material, is laid on top of said border, the parts being united with rivets.

By thus turning under the border of the top, besides strengthening the boot and cheapening its construction, we obtain the mechanical advantage of making the edges of the shoe come flush with the upper, and thus make the side of the boot as smooth as the uncovered hoof would be, there being no exposed stitching or sharp projecting edges, such as occur when the top is fastened to the shoe in the manner set forth in the above-mentioned patent.

When the shoe A is made with one or more joints,

the plate C, if made of metal, must be broken at the joints. But if such plate is of leather, or other pliable substance, it may be a continuous strip, or in two or more sections joined together, or meeting, or with intervals between the ends of the sections.

The two back parts of the top B are made sufficiently large to overlap each other, and they are also made concave, as shown in figs. 1 and 2, so that when the straps D and E are buckled, and the back parts of the tops thus drawn together, the concavities conform to the pastern of the horse, and the boot is thus securely attached to the hoof, while the overlapping parts of the top at the same time protect the tender parts of the horse's limbs immediately above the hoof from being chafed by the fastening-strap D.

The strap E extends in and out through holes cut in the top, as shown, passing obliquely around the top, said strap being in front, about one-half an inch below the upper edge of the top, so that this strap shall come below or be entirely clear of the coronet when the boot is on the horse's hoof.

The object of this is, first, to obtain a more secure fastening for the boot; second, to prevent breakage of the fastening by distributing the heavy strain which falls upon it when the horse is in motion, especially when he starts; and, third, to cause the strain to fall on the horny part of the hoof rather than upon the coronet or exposed fleshy parts of the horse's limbs immediately above the hoof.

The above-described improvements are equally applicable to shoes with or without joints.

Having thus fully described our invention,

What we claim as new and desire to secure by Letters Patent, is—

1. The top B, provided with two concave overlapping parts at the heel, substantially as and for the purposes herein set forth.

2. The combination of the shoe A, top B, strip C, and straps D E, all constructed and arranged substantially as shown and described, and for the purposes specified.

HENRY G. HAEDRICH.
EDWARD M. HAEDRICH.

Witnesses:

GEO. PATCHEL,
WILLIAM ROBINSON.