

P. H. O'NEILL.
Horseshoe Attachments.

No. 137,794.

Patented April 15, 1873.

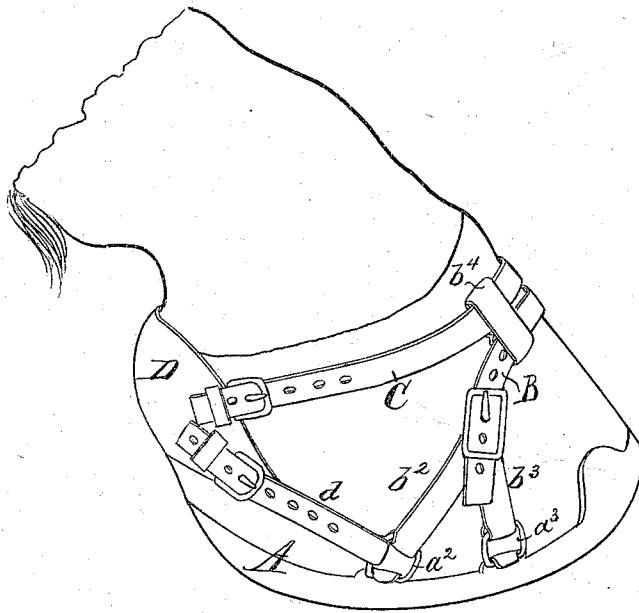


FIG. 1.

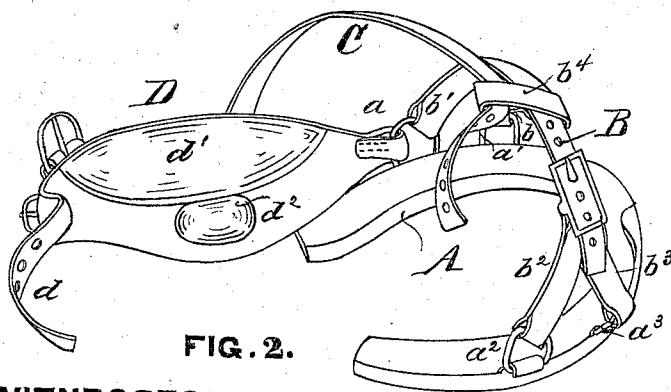


FIG. 2.

WITNESSES:

Charles Meisner.
J. M. Fathel,

INVENTOR:

Patrick H. O'Neill
per. Fether & Co.
Attys.

UNITED STATES PATENT OFFICE.

PATRICK H. O'NEILL, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN HORSESHOE ATTACHMENTS.

Specification forming part of Letters Patent No. 137,794, dated April 15, 1873; application filed December 19, 1872.

To all whom it may concern:

Be it known that I, PATRICK H. O'NEILL, of St. Louis, in the county of St. Louis and State of Missouri, have invented a certain Improved Horseshoe Attachment, of which the following is a specification:

The object of this invention is to avoid the objectionable use of nails, screws, and the like fastening devices ordinarily used to shoe horses, &c. I am aware, to accomplish this, shoes have been provided with metallic shields, front and rear, united by metallic bands. My invention, however, consists in providing buckles or rings to shoes and attaching same securely to the hoof of the animal by a combination of leather straps and fastenings, consisting of toe and branch straps, ankle-strap, and padded heel-strap, of the construction, formation, and arrangement to operate in manner now to be more fully described.

To enable those herein skilled to make and use my said improvements, I will now more fully describe the same, referring to Fig. 1 as a perspective view, showing my improvements as applied in use; Fig. 2 representing a perspective view of same disengaged.

A is an ordinary horseshoe. The shoe A I provide with buckles or rings a a^1 a^2 a^3 . These are placed in line with the usual side clips of the shoe. Thus said fastenings answer for the double purpose of side clips to keep the shoe from moving as well as to hold the straps. B is a toe-strap, one end of which forms side branch straps b b' , which are secured to the respective rings a a^1 . The toe-strap B is passed around the toe or front of the hoof, (see Fig. 1,) and is secured by a buckle belonging to opposite branch straps b^2 b^3 , which are attached to the rings a^2 a^3 . (See figures.) The toe-strap B can be drawn as tightly as required, and, as the branch straps b b^1 b^2 b^3 equally divide the pressure on the sides of the hoof; therefore the sides and toe-part of shoe are supported and secured by said toe-strap. The toe-strap is further provided with a loop, b^4 , through which passes the ankle-strap C. The ankle-strap C passes around the ankle of

the hoof, (see Fig. 1,) and has one end secured to form part of the heel-strap D, the object of the ankle-strap C being to prevent undue play of the heel-strap, and to retain same in its true position, notwithstanding the movements of the horse or foot. D, the heel-strap, is of the constructive form shown in Fig. 2, one of its ends being attached to the side ring a , its other end being formed into a strap, d , by which said heel-strap can be properly secured to the opposite ring a^2 . As shown in Fig. 2, the heel-strap is padded up and below, as at d^1 d^2 , the full or upper padding d^1 being designed to fill the hollow of the heels under the pastern-joint. The padding d^1 , thus filling the vacuity of the heel, causes a neat fit, is comfortable and easy on the hoof, and peculiarly adapted to the movements of the foot of the animal. The lower padding d^2 is to fill the small hollow formed by the junction of the foot proper. Both paddings in tendency also exert an equalizing pressure upon the hoof. By the adaptation of the several parts of the attachment here shown the hoof is preserved from injury and disease; also, as the shoe can be readily disengaged the comfort of the animal is further promoted, besides the avoidance of the time, expense, and dangers incurred by the ordinary method of shoeing the animal.

Having thus fully described my said improvements, what I claim is—

1. A heel-strap with upper and lower padding, as and for the purpose set forth.
2. The toe-strap formed with branch side straps, as and for the purpose set forth.
3. An improved horse-shoe attachment, consisting of toe-strap B, branch-straps b^2 b^3 , ankle-strap C, loop b^4 , and double-padded heel-strap D, as herein shown and described, as and for the purpose set forth.

In testimony of said invention I have hereunto set my hand.

P. H. O'NEILL.

Witnesses:

WILLIAM W. HERTHEL,
CHAS. MEISNER.