

W. H. Hall,

Horse Shoe.

No. 100618.

Patented Mar. 8. 1870.

Fig. 1.

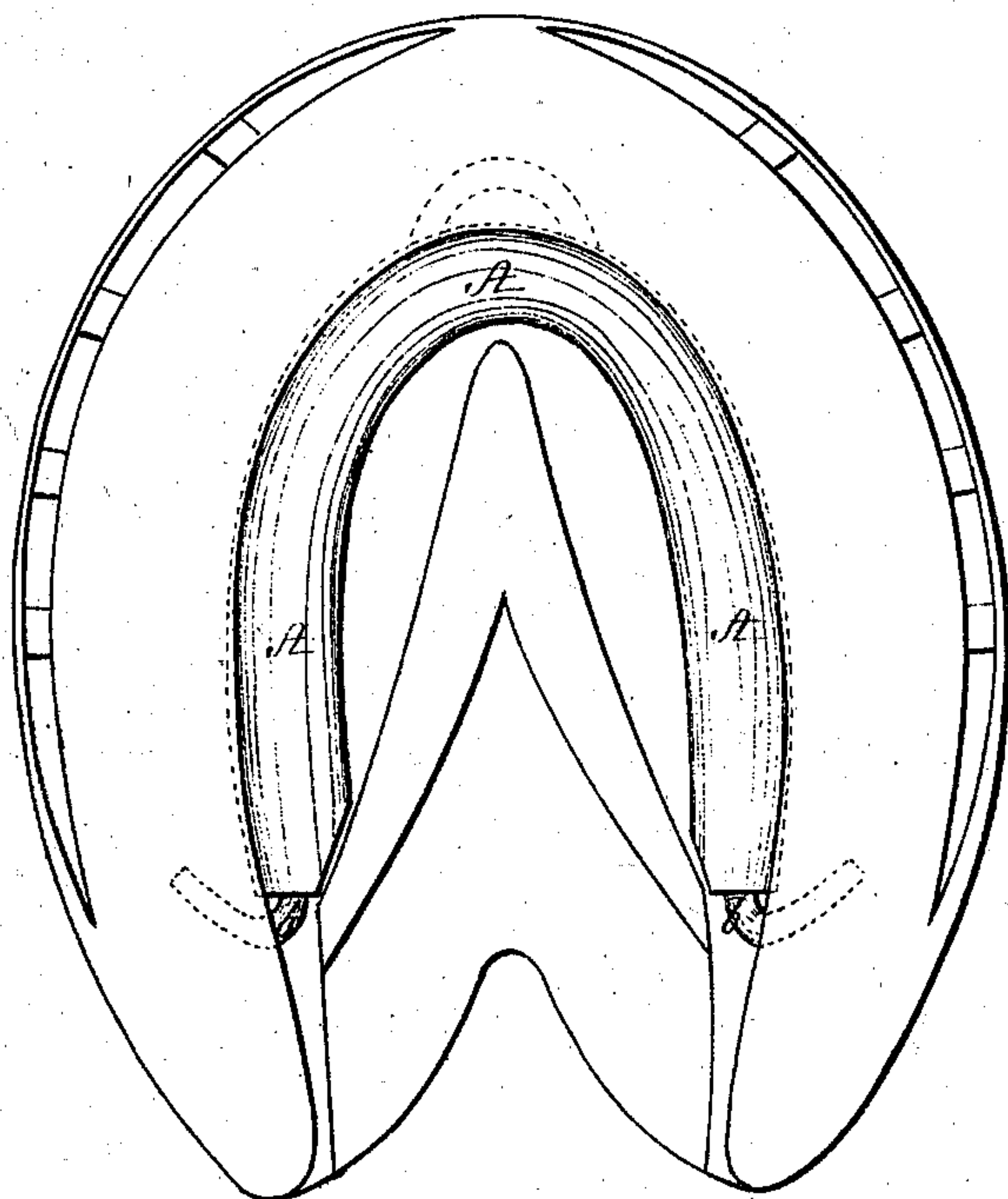


Fig. 3.

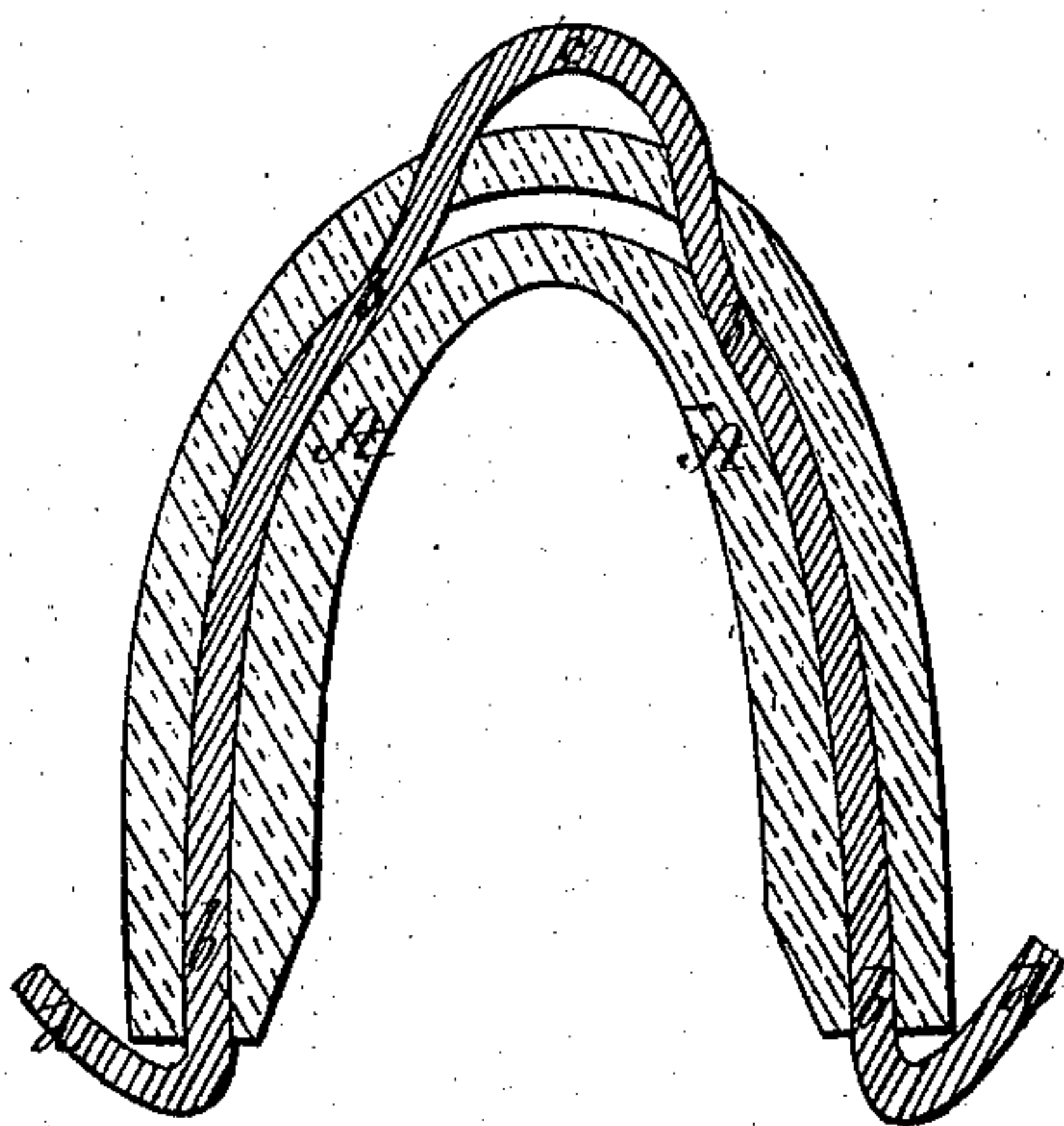


Fig. 2.

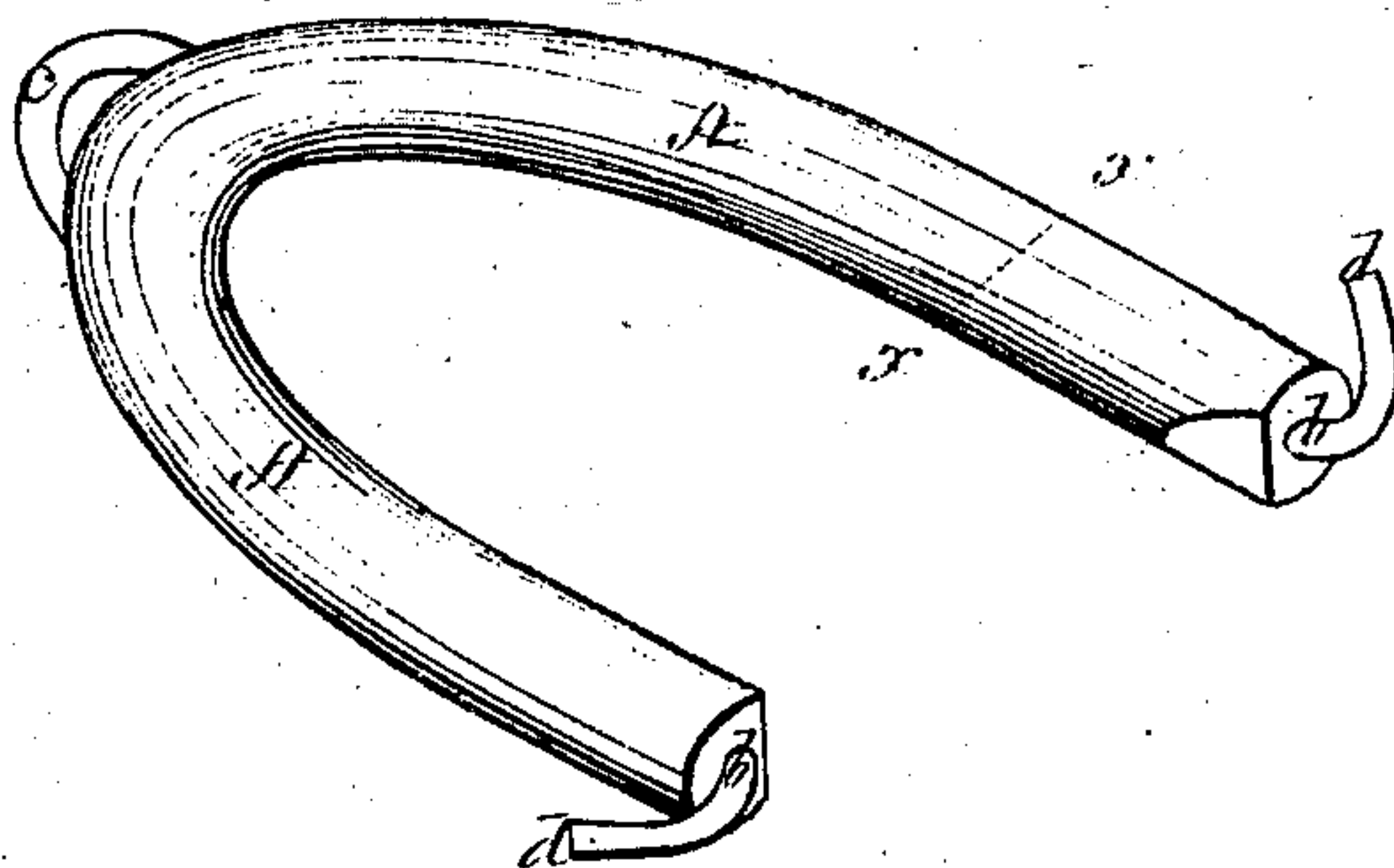
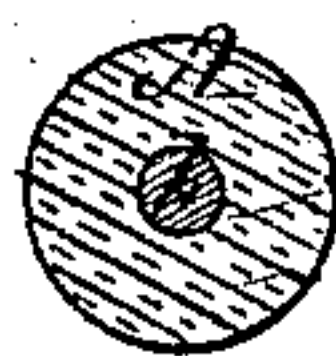


Fig. 4.



P. S. Stearns

N. W. Stearns

William H. Hall.

United States Patent Office.

WILLIAM H. HALL, OF BOSTON, ASSIGNOR TO HIMSELF AND JOSEPH W. HASKINS, OF CHARLESTOWN, MASSACHUSETTS.

Letters Patent No. 100,618, dated March 8, 1870.

IMPROVEMENT IN ELASTIC PROTECTOR FOR HORSES' FEET.

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

To all whom it may concern:

Be it known that I, WILLIAM H. HALL, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an Improved Elastic Protector for Horses' Feet, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 represents my improved protector applied to the foot of a horse.

Figure 2 is a perspective view of my improved protector detached.

Figure 3 is a horizontal section through the same.

Figure 4 is a section through the same on the line *x x* of fig. 2.

In shoeing horses, a rubber pad or cushion is often placed between the shoe and the hoof, to exclude snow or dirt, and also to prevent "balling." This device, however, although it answers a good purpose, nevertheless tends to heat the horse's foot in warm weather, and cannot be removed without taking off the shoe. A removable rubber cushion has also been used, provided with a spring, and secured in place by catches, as described in Letters Patent of the United States granted to John Hazeltine and Charles L. Wheeler, on the 21st day of September, A. D. 1869; but this cushion was expensive and required to be made of a size and shape to fit the interior of the shoe to which it was to be applied.

A leather pad, provided with a web which covered the "frog," has also been secured to the shoe by a spring; but this pad was objectionable, as it required to be made of a certain size and shape, to exactly fit the interior of the shoe, while the dirt would get between the web and the foot and cause the pad to fall off.

My invention has for its object to overcome these difficulties and objections, and to furnish an exceedingly cheap and simple protector, which will effectually prevent "balling," and the entrance of snow or dirt between the shoe and the hoof, and may be readily applied to any shoe without regard to its size or shape; and

My invention consists in a tube or cushion, composed of rubber or other suitable material, within which is placed a wire, extending longitudinally through it, which will retain the tube in any shape into which it may be bent, to conform to the shape of the inner edge of the shoe to which it is to be applied, the protector being held securely in place by portions of the wire which project out and fit under the inner upper edge of the shoe.

To enable others skilled in the art to understand

and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings—

A is a rubber tube or cushion, within which is placed a thick wire, *b*, which is annealed, so that it will "set" and retain the tube in any form into which it may be bent to conform to the shape of the inner edge of the shoe to which it is to be applied, as seen in fig. 1.

This wire *b* extends out through the tube near the center, forming a loop or projection, *c*, while the ends *d* of the wire extend beyond the ends of the tube, and are bent round, as seen in figs. 2 and 3. These projecting portions *c d* of the wire fit under the inner upper edge of the shoe, as seen in dotted lines in fig. 1, the projecting ends *d* of the wire being held in place by the elasticity of the rubber tube, which causes its ends to spring tightly against the inside of the shoe. The tube A is thus held firmly in place, and when secured in this position, it serves to effectually prevent dirt or snow from getting between the shoe and the foot, and also prevents "balling." The tube A, instead of being composed of rubber, may be of leather or other suitable material, and instead of the ends *d* of the wire being bent, as shown, they may be made to project straight out from the ends of the tube; and after the latter is sprung into place, may be bent under the ends of the shoe and up against the hoof, the ends of the tube A, in either case, being held down firmly in place by the projecting portions of the wire.

The above-described protector may be readily applied or removed, without disturbing the shoe, does not heat the foot, and may be furnished at a trifling cost, while its peculiar construction enables it to be readily bent to fit a shoe of any size or shape, advantages not possessed by pads or protectors as heretofore constructed, which require to be made of a certain size and shape to fit each particular shoe.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The within-described protector for horse's feet, consisting of an elastic tube or cushion, A, provided with a wire, *b*, extending through it longitudinally and projecting out, so as to form catches or fastenings, substantially as set forth.

Witness my hand this 12th day of February, A. D. 1870.

WILLIAM H. HALL.

Witnesses:

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.