

JOHN E. BYERS.

Improvement in Detachable Horseshoe-Calks.

No. 127,843.

Patented June 11, 1872.

Fig. 1.

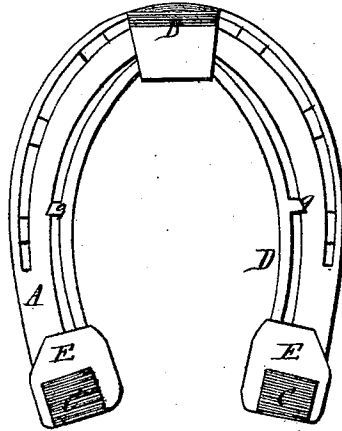


Fig. 2.

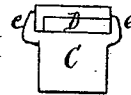
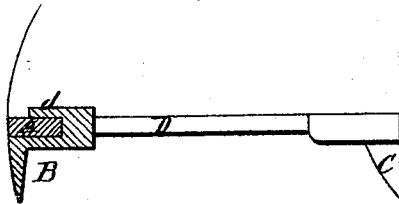
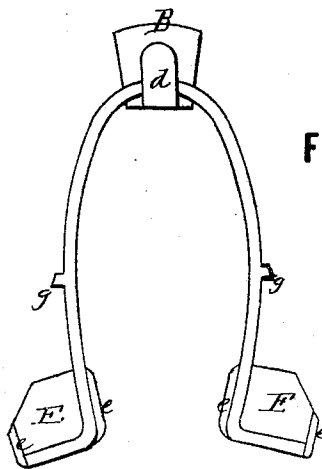
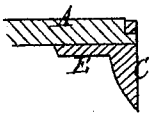


Fig. 3.



WITNESSES.

E. H. Bates
G. E. Upham.

INVENTOR.

John E. Byers,
Chipman & Hosmer & Co
Attys

UNITED STATES PATENT OFFICE.

JOHN E. BYERS, OF BUTLER, PENNSYLVANIA.

IMPROVEMENT IN DETACHABLE HORSESHOE-CALKS.

Specification forming part of Letters Patent No. 127,843, dated June 11, 1872.

To all whom it may concern:

Be it known that I, JOHN E. BYERS, of Butler, in the county of Butler and State of Pennsylvania, have invented a new and valuable Improvement in Horseshoe-Calks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a bottom view of my invention. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a top view of the spring and its attachments and details.

My invention has relation to horseshoes; and consists in the novel construction of the toe and heel calks, and of an adjustable spring-clasp for securing them to the shoe. The object of my invention is to provide for the use of toe and heel calks, which may be applied and removed at will.

Referring to the accompanying drawing, A represents the horseshoe; B, the toe-calk; C, the heel-calks; and D, the spring-clasp. The spring-clasp closely corresponds in shape to the interior curve of the shoe. The toe-calk is secured to the front part thereof; thence extends under the shoe, and is bent down and sharpened. From the upper part of the spring D, directly above the toe-calk, a lug, *d*, projects, and rests on the upper surface of the shoe.

The ends of said spring are bent outwardly on a line with the ends of the shoe, and fit offsets cut in the upper parts of said shoe-ends. The heel-calks are formed on plates E, having lugs *e* bent at right angles thereto; the spring D is secured to the inner of said lugs. These lugs, together with the plates *e* and the bent ends of the spring, embrace rectangular sockets, into which the ends of the shoe exactly fit. From the sides of the spring beveled lugs *g* project and fit notches formed in the sides of the shoe.

In attaching the calks to or detaching them from the shoe the spring is compressed, and the desired result obtained, by a few slight strokes of a hammer upon the calks.

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

1. The adjustable spring-clasp D, in combination with the calks B C, substantially as specified.

2. The spring D having the calks B C, projections *g d*, plates E with lugs *e*, and the bent ends, as described, in combination with the notched shoe A having offsets at the ends, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN E. BYERS.

Witnesses:

R. W. W. LANE,
MOSES SULLIVAN.