

G. M. L. McMILLEN.
HORSESHOE-CALKS.

No. 177,868.

Patented May 23, 1876.

Fig. 1.

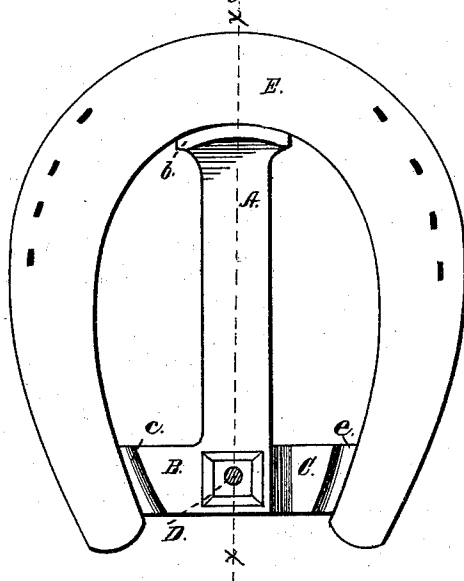


Fig. 4.

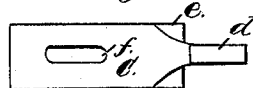


Fig. 2.

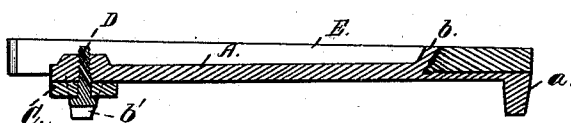
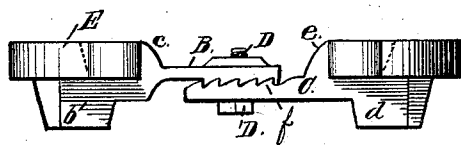


Fig. 3.



Witnesses;
Chas. M. Beck
Geo. Grulich

Inventor;
Gilbert M. L. McMullen
by his Atty.
Rocke & Co.

UNITED STATES PATENT OFFICE.

GILBERT M. L. McMILLEN, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF HIS
RIGHT TO EDWARD F. PRYOR, OF SAME PLACE.

IMPROVEMENT IN HORSESHOE-CALKS.

Specification forming part of Letters Patent No. **177,868**, dated May 23, 1876; application filed
April 10, 1876.

To all whom it may concern:

Be it known that I, GILBERT M. L. McMILLEN, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Adjustable and Removable Calks for Horseshoes; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates to certain improvements in adjustable and removable calks for horseshoes; and the nature of the improvement consists in having the rear braces adjustable, so as to fit variously-sized shoes, while, at the same time, the relative distance between the toe and heel calks is always maintained.

To enable others skilled in the art to which my invention belongs to make and use the same, I would thus proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a top view of a horseshoe provided with my improved adjustable calk. Fig. 2 is a side elevation of Fig. 1 through the line *x x*. Fig. 3 is a rear elevation of the shoe with the calk applied. Fig. 4 is a bottom view of the slotted rear brace.

Corresponding letters of reference indicate like parts in all of the figures.

A represents a reversed L-shaped piece of metal, with its front end bent down to form the toe-calk *a*, Fig. 2. A flange, *b*, upon the top of the piece, just a little in the rear of the toe-calk, forms a shoulder, that, when the device is adjusted, bears against the inner front edge of the shoe. The bent portion B of the piece A, Figs. 1 and 3, has its end shaped to form a downwardly extending calk, *b'*, and a bearing-shoulder, *c*. C represents a piece of metal, with one end shaped into a calk, *d*, and shoulder *e*, and provided with a longitudinal centrally-arranged slot, *f*, Fig. 4. The top of this piece is serrated or notched transversely,

as seen in Fig. 3, to fit into corresponding serrations upon the under side of the bend in the piece A.

To apply the device to a horseshoe it is only necessary to place the piece A so that the shoulders *b* and *c* bear against the front and rear inner edges of the shoe E, as represented in Fig. 1. Then apply the piece C so that its shoulder *e* bears against the rear inner edge of the shoe opposite the shoulder *c*, and with the serrations upon its top and upon the bottom side of the piece A articulating. A set-screw, D, is then passed through the slot *f*, and works in the piece A, to hold the device securely in position and prevent its displacement.

I am aware that adjustable and detachable calks for horseshoes have been employed in which the rear brace was only adjustable by shifting its position upon the toe-brace, and thereby constantly changing the relative positions of the toe and heel calks, in order to adapt it to various-sized shoes. The advantage derived in my case is, that the rear brace being extensible by means of the slotted plate C, it can be fitted upon different-sized shoes without changing the relative distance between the toe and heel calks.

I therefore claim as new, and desire to secure by Letters Patent—

The herein-described adjustable and detachable calk for horseshoes, consisting of the pieces A and C, constructed and arranged with reference to each other and the shoe as described, and held in position by the serrations in each and the set-screw D, as and for the purpose specified.

Witness my hand this 5th day of April, A. D. 1876.

GILBERT M. L. McMILLEN.

Witnesses:

PATRICK H. GUNCKEL,
CHAS. M. PECK.