(No Model.)

W. SOMERVILLE, Sr.

HORSESHOE.

No. 322,652. Patented July 21, 1885.

Fig. 1.

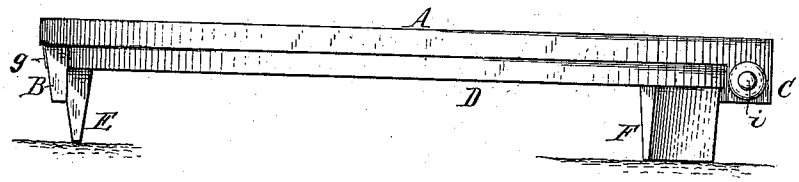


Fig. 2.

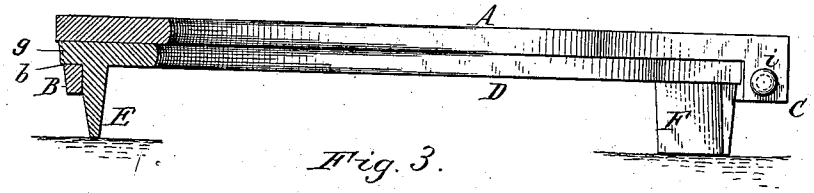


Fig. 3.

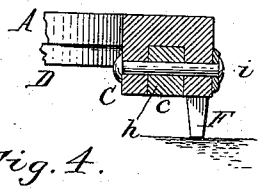


Fig. 4.

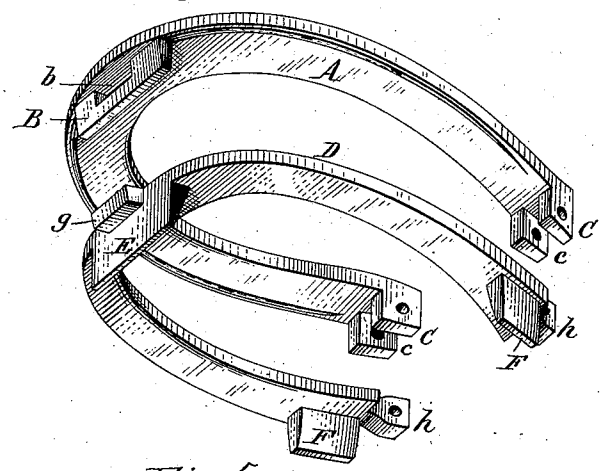
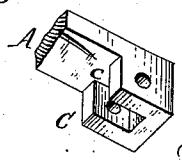


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM SOMERVILLE, SR., OF BUFFALO, NEW YORK.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 322,652, dated July 21, 1885.

Application filed February 19, 1885. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SOMERVILLE, Sr., of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in Horseshoes, of which the following is a specification.

This invention relates to an improvement in that class of horseshoes which are composed of an upper plate or shoe which is secured to the foot of the horse, and a lower plate or shoe which is removably secured to the upper plate and provided with sharp calks.

The object of my invention is to so construct the shoe that the upper plate will serve the purpose of an ordinary shoe provided with dull calks, and will permit the ready attachment of the lower plate when sharp calks are required.

My invention consists, to this end, of the improvements which will be hereinafter fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of my improved horseshoe. Fig. 2 is a longitudinal section of the same. Fig. 3 is a cross-section through the heel-calk. Fig. 4 is a perspective view showing the plates of the shoe separated from each other. Fig. 5 represents a perspective view of a modified construction of the dull toe-calk.

Like letters of reference refer to like parts in the several figures.

A represents the upper plate having the form of an ordinary horseshoe and provided with the usual nail-holes, so that it can be secured directly to the foot of the horse.

B represents the dull toe-calk formed on the under side of the front end of the plate A and provided, adjacent to the plate, with a horizontal opening, *b*.

C represents the dull heel-calks formed on the under side of the rear ends of the plate A, each calk being composed of two downwardly-projecting parts, leaving an opening, *c*, between the same.

D represents the lower plate, made of the proper form to be placed against the under side of the plate A, and provided at its front end with a sharp toe-calk, E, and near its rear ends with sharp heel-calks F F. The plate D is provided, at its front end above the toe-calk E, with a forwardly-projecting tenon or tongue, *g*, which enters the opening *b* in the toe-calk B and secures the front end of the lower plate to the upper plate.

h h represent rearwardly-projecting tenons or tongues formed at the rear ends of the lower plate, D, and entering the spaces *c c* of the toe-calks C, in which they are secured by rivets or pins *i*, passing through the calks C and tongues *h*, whereby the rear ends of the lower plate are securely attached to the rear ends of the upper plate. If desired, the two parts of each dull toe-calk C may be extended backwardly beyond the tongue *h* and united in rear of the same, so that each calk is formed of a continuous piece with two forwardly-projecting jaws, which embrace the tongue of the lower plate, as represented in Fig. 5. When the lower plate is detached from the upper plate, the latter serves the purpose of an ordinary horseshoe having dull calks. When sharp calks are required, the lower plate is readily attached to the upper plate by inserting the tongue *g* in the opening *b* and the tongues *h* in the spaces *c* and passing the pins or rivets through the tongues *h* and the dull toe-calks. When the sharp calks are no longer required for use, the lower plate is readily detached from the upper plate upon removing the rivets *i*.

Each of the plates A and D is readily forged of the kinds of wrought-iron that are ordinarily employed in the manufacture of horseshoes, and they form a light, strong, and convenient shoe which is not liable to get out of order while in use.

I claim as my invention—

In a horseshoe, the combination, with an upper plate, A, provided with a dull toe-calk, B, having an opening, *b*, and dull heel-calks C C, provided with openings *c*, of a lower plate, D, provided with a tenon, *g*, entering the opening *b*, tenons *h h*, entering the opening *c*, fastening pins or rivets *i*, and sharp calks E F F, substantially as set forth.

Witness my hand this 14th day of February, 1885.

WM. SOMERVILLE, SR.

Witnesses:
JNO. J. BONNER,
GEO. E. PITMAN.