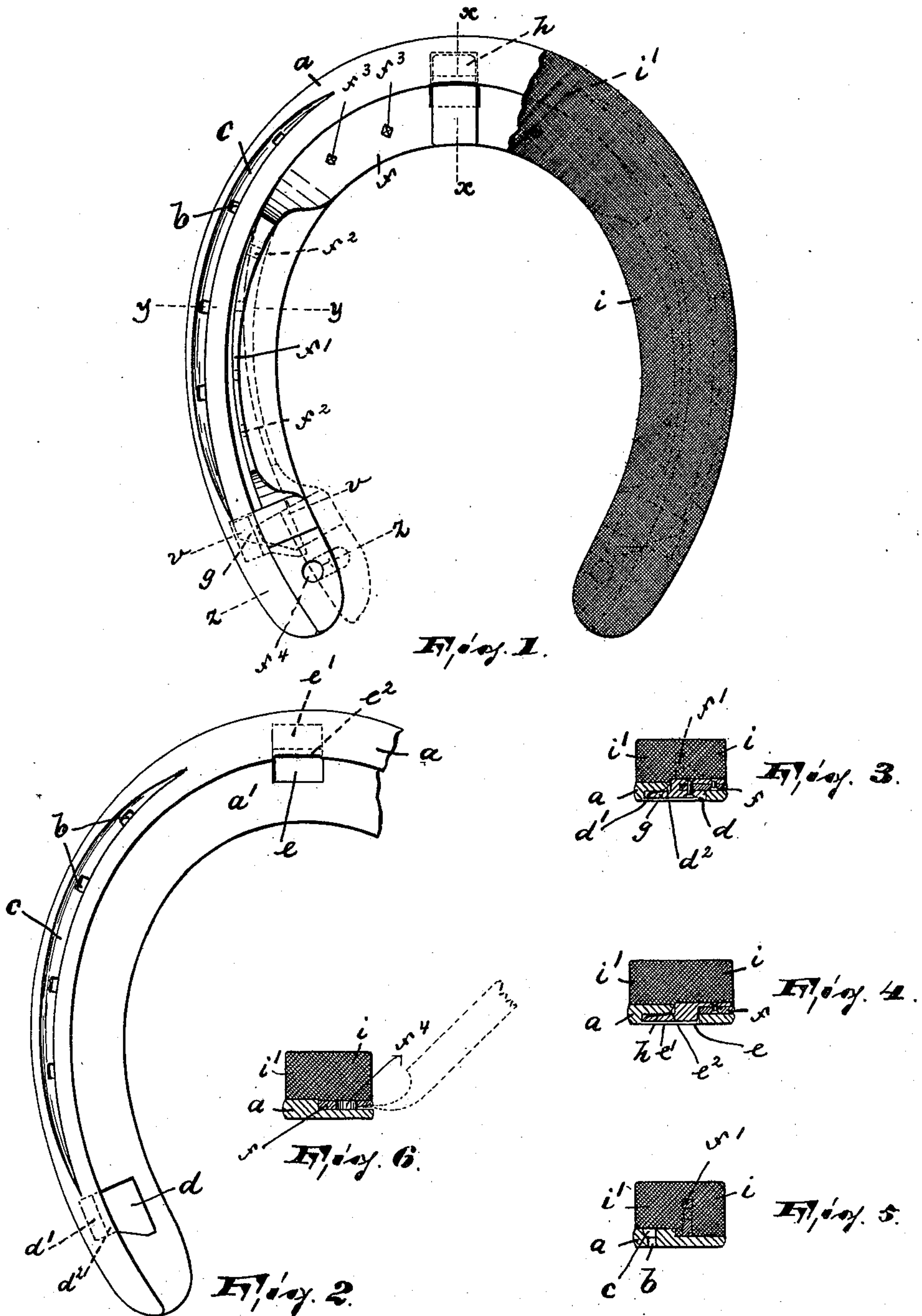


(No Model.)

T. M. MILLER.
ELASTIC HORSESHOE.

No. 602,236.

Patented Apr. 12, 1898.



WITNESSES:

Wm. J. Bell.
L. Snyder.

INVENTOR:

Thomas M. Miller

BY *Partner & Co* ATTY'S.

UNITED STATES PATENT OFFICE.

THOMAS M. MILLER, OF BETHLEHEM, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO J. WALTER LOVATT, OF SAME PLACE.

ELASTIC HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 602,236, dated April 12, 1898.

Application filed August 6, 1897. Serial No. 647,321. (No model.)

To all whom it may concern:

Be it known that I, THOMAS M. MILLER, a citizen of the United States, residing in Bethlehem, county of Northampton, and State of Pennsylvania, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my present invention is to provide a horseshoe with a detachable elastic bearing-surface or lower face of simple, strong, and durable construction, reliable in operation, and in which the sections can be easily and quickly locked and unlocked.

The invention consists in the improved horseshoe, its auxiliary elastic horseshoe, the means for removably securing said auxiliary horseshoe to the hoof-plate, and in the combination and arrangements of the various parts thereof, substantially as will be hereinafter more fully described and finally embodied in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figure 1 is an underneath view of my improved horseshoe, a certain portion of the elastic material being broken away to better illustrate the nature of my said invention; Fig. 2, an underneath view of a portion of the base or hoof plate, illustrating more clearly a series of openings arranged therein for the reception of certain locking lugs or means employed in my device; and Figs. 3, 4, 5, and 6, sectional views on the lines *vv*, *xx*, *yy*, and *zz*, respectively.

In said drawings, *a* represents a metallic base or hoof plate, conforming in appearance with an ordinary horseshoe and provided with the usual fullering *c* and nail-holes *b*. A rabbet *a'* is arranged on the under side of said hoof-plate and substantially parallel with the inner edge thereof, which rabbet is penetrated at its toe and heels with vertical openings *e* and *d*, respectively, extending toward the outer edge of the plate, and thus

forming in the latter recesses *e'* and *d'*, having sloping inner edges *e²* and *d²*, respectively, for purposes hereinafter described.

The auxiliary shoe consists of the substantially horseshoe-shaped band *f*, having its quarters flattened at right angles to itself, as at *f'*, thus giving said band a certain spring-power, whereby it can be easily sprung into the rabbet *a'*. Integral with said band *f* or secured thereto in any desired manner are arranged the outwardly-projecting tapering lugs *g* and *h*, respectively adapted to penetrate the openings *d* and *e* and to bear against the under sides of the recesses *d'* and *e'* of the hoof-plate *a*, and to thus retain and hold the auxiliary shoe securely in close proximity to said hoof-plate.

The band *f* and its quarters *f'* are provided, respectively, with projections *f³* and holes or apertures *f²*, adapted to penetrate and be engaged by the elastic block *i*, cast or otherwise secured to the said band *f* and its quarters *f'* and projecting beyond the outer edges thereof to the outer edge of the hoof-plate, to thus conform to the shape of the latter. The lower surface of said elastic block *i* is substantially horizontal, and the inner surface of the outwardly-projecting portion *i'* bears solidly against the lower surface of the hoof-plate *a*, as clearly illustrated in the various sectional views of the drawings.

After the hoof-plate *a* has been secured to the hoof in the ordinary manner the auxiliary shoe is placed into position, which is accomplished by first inserting the projecting lug *h* through the hole *e* into the recess *e'* of the hoof-plate, in afterward compressing the side sections of the auxiliary shoe until the projecting lugs *g g* are in alinement with their respective holes *d* and recesses *d'*, and in forcing said lugs into said recesses until their upper inner edges bear against the inner edges of their respective holes, as clearly illustrated in Fig. 3 of the drawings. A firm connection is thus obtained between the auxiliary shoe and the hoof-plate. For removing the former from the latter one a jimmy or other suitably-hooked tool is necessary, which is inserted with its pointed end between the band *f* and the hoof-plate *a*, as indicated in dotted lines in Fig. 6, until the

pointed end of said jimmy or tool engages an aperture f^4 , arranged in the heel of the auxiliary shoe. A pressure exerted upon said jimmy will quickly withdraw the lugs g from the recesses d' and opening d and thus permit the removal of the auxiliary shoe, as will be manifest.

In certain instances the hoof-plate can be used without the auxiliary shoe, especially for race-track purposes, &c.

I do not intend to limit myself to the precise construction shown and described, as various alterations can be made without changing the scope of my invention; but

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

1. A horseshoe comprising a hoof-plate, a horseshoe-shaped band removably arranged on said hoof-plate and having its quarters bent at right angles to itself, an elastic block carried by said band and its quarters and extending to the outer edge of the hoof-plate, and means for removably securing said band and elastic block to the hoof-plate, substantially as and for the purposes described.

2. A horseshoe comprising a hoof-plate, a horseshoe-shaped band removably secured to said hoof-plate and having its quarters bent at right angles to itself, and an elastic horseshoe-shaped block carried by said band and its quarters and conforming in shape to the

shape of the hoof-plate, substantially as and for the purposes described.

3. A horseshoe comprising a hoof-plate provided on its under inner portion with a rabbet and at its toe and heels with openings and adjoining recesses, a band in said rabbet and provided with outwardly-projecting lugs penetrating the said openings and engaging their respective recesses, and an elastic block carried by said band and substantially conforming in shape to the shape of the hoof-plate, substantially as and for the purposes described.

4. A horseshoe comprising a hoof-plate provided at its under inner portion with a rabbet, a horseshoe-shaped band removably arranged in said rabbet and having its quarters bent at right angles to itself, an elastic block carried by said band and its quarters and extending to the outer edge of the hoof-plate, and means for removably securing said band and elastic block to the hoof-plate, substantially as and for the purposes described.

In testimony that I claim the foregoing I have hereunto set my hand this 28th day of July, 1897.

THOS. M. MILLER.

Witnesses:

O. E. GROMAN,
H. A. GROMAN.