

(No Model.)

G. L. & A. H. REYNOLDS & R. N. HUDSON.  
NAILLESS HORSESHOE.

No. 552,925.

Patented Jan. 14, 1896.

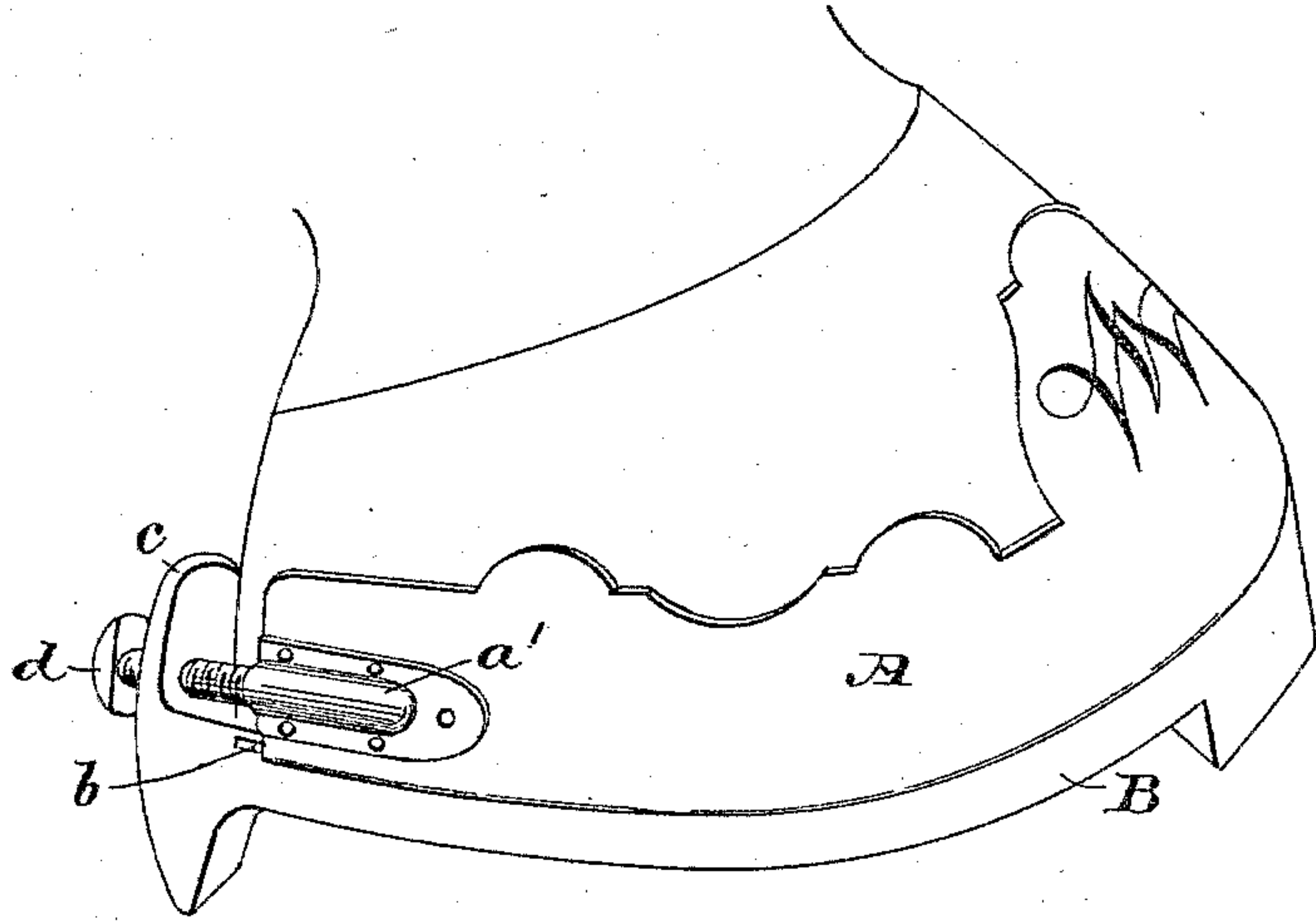


Fig. 1,

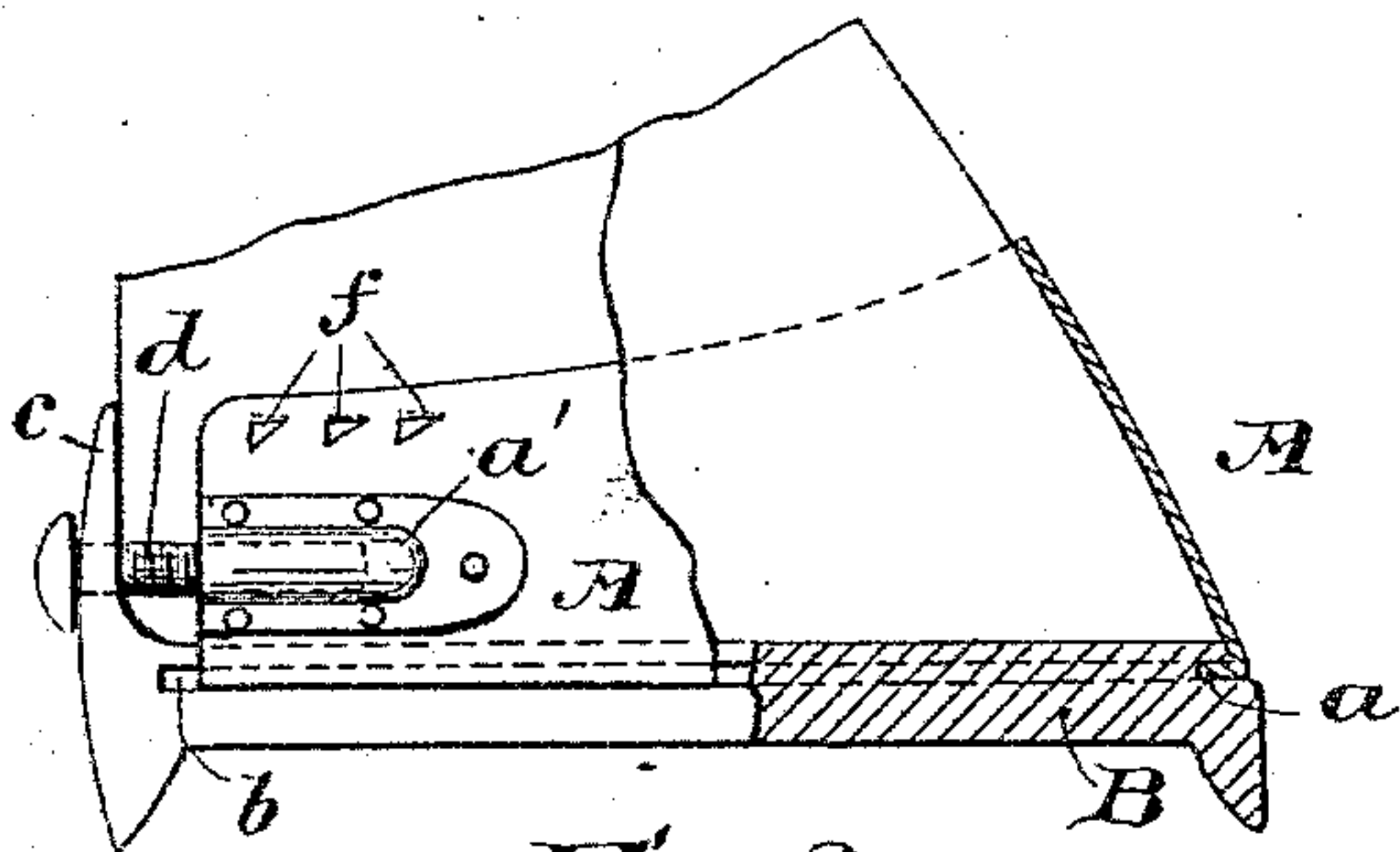


Fig. 2,

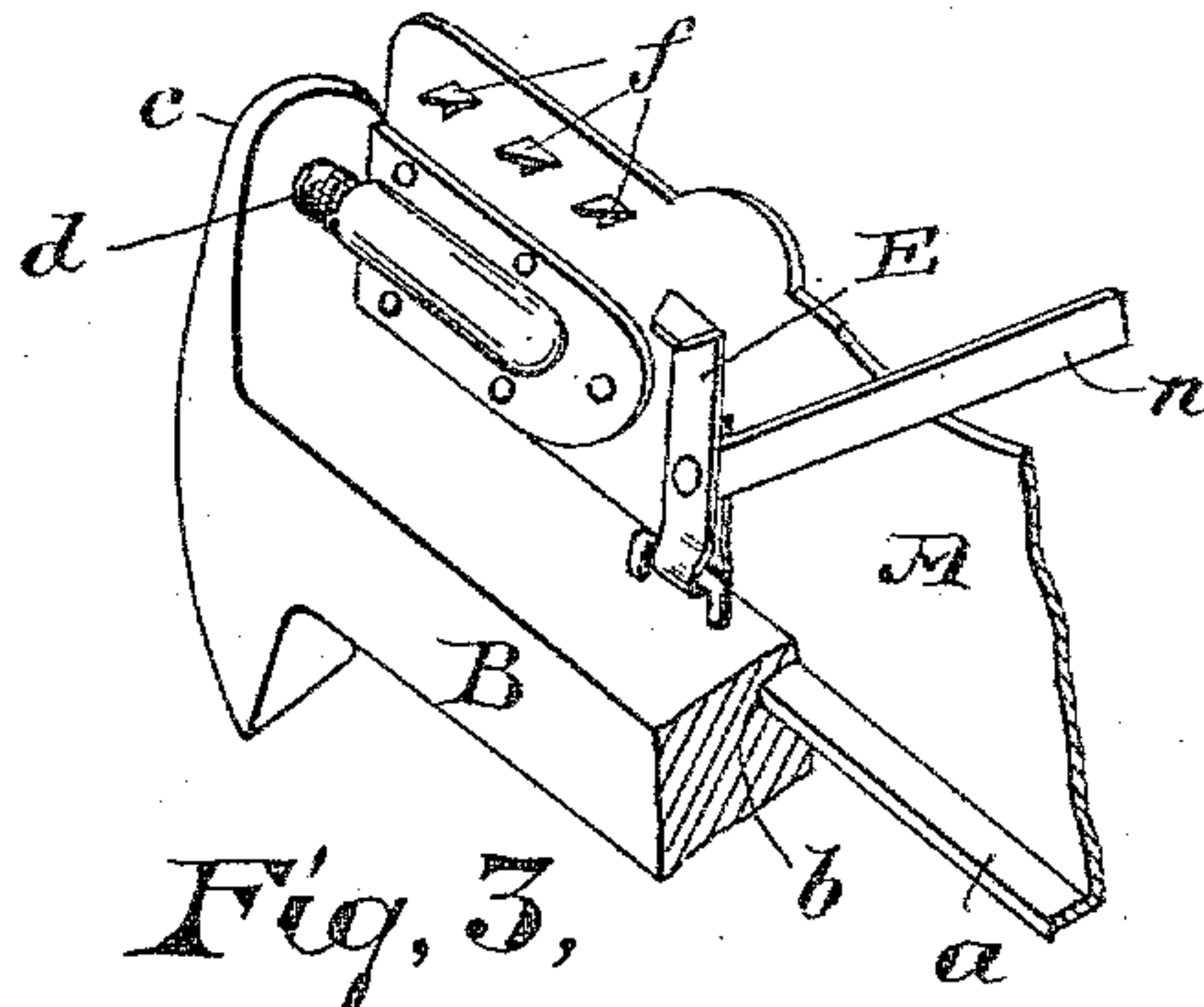


Fig. 3,

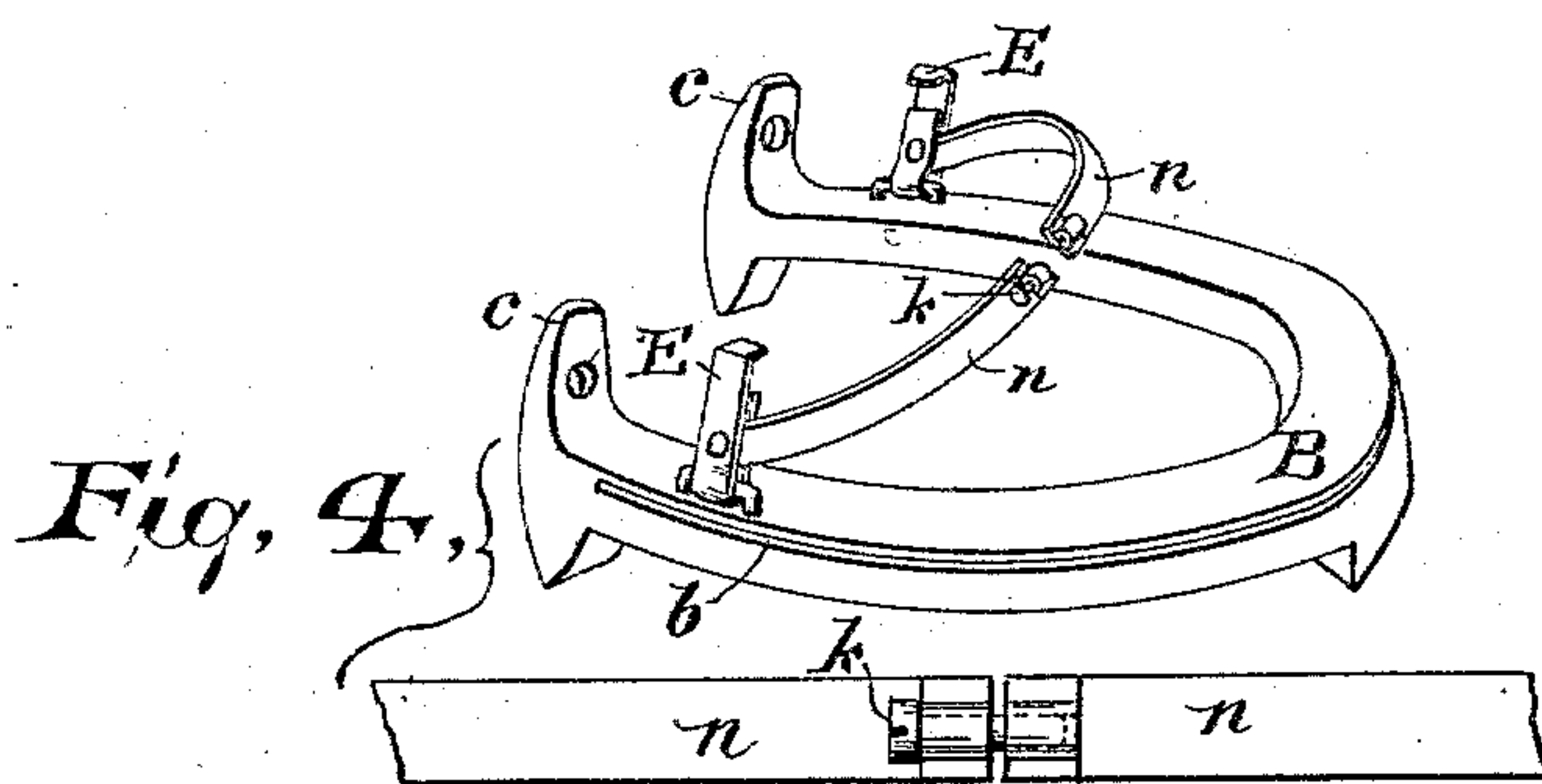


Fig. 4,

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# UNITED STATES PATENT OFFICE.

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OF AUBURN, NEW YORK.

## NAILLESS HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 552,925, dated January 14, 1896.

Application filed April 29, 1895. Serial No. 547,488. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE L. REYNOLDS, ACHSA H. REYNOLDS, and RICHARD N. HUDSON, citizens of the United States, residing at Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Nailless Horseshoes; and we 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 objects of this invention are to provide a nailless horseshoe combining therein strength and durability; to secure a more perfect fastening of the shoe to the hoof; to present a neat appearance, and to secure other advantages and results hereinafter set forth.

The invention consists in the improved nailless horseshoe and in the combination of the parts thereof, as will be hereinafter more fully described, and finally pointed out in the claims.

Referring to the accompanying drawings, in which similar letters of reference indicate corresponding parts in all the figures where they occur, Figure 1 is a perspective view of a horse's hoof, illustrating our nailless shoe fastened thereto. Fig. 2 shows partly in elevation and partly in section our improved horseshoe as fastened to the hoof. Fig. 3 shows in perspective one of the rear ends of the shoe proper and the adjacent end of a certain clamping-band; and Fig. 4 shows in perspective a view of the shoe with the rear upright projections, the groove around the upper edge of the shoe, the grips E, and the extra band detached at the middle but attached at its extreme ends to said grips E, and also a view of the mode of drawing the two halves tightly by a screw.

In said drawings, A indicates a band which is made separate from the shoe B and has its returned lower edge *a* fitting into a groove *b*, which extends all around the outer edge of the shoe and near the upper surface thereof. On both extremities of the shoe B, and inte-

gral therewith, are upward projections *c*. Screws *d* are passed through said projections and engage with threaded nuts or sockets *a'*, one on each side of the band A, firmly secured to or integral therewith, thus serving, when the screws are screwed inward, not only to tighten said band but also to hold the grips E, which are attached to the shoe B near both ends thereof and turn backward and forward on a hinged fastening and engage with the hoof when said band is tightened around the latter, as will be understood. In lieu of said grips, teeth *f* may be punched out from the band A and answer the same purpose, or both said grips E and teeth *f* may be used in the same device, as will be obvious. The second band *n* (in Fig. 4) extends as a brace over and across the hoof, fastening in the middle on or near the highest point of the band A by a screw *k*, the extreme ends being fastened to the grips E, thus aiding to prevent the shoe B from being pressed downward from the hoof when the horse's foot is in motion. It will be readily seen that by aid of the screws *d* and *k* the shoe can with facility be taken off or firmly secured to the horse's hoof.

The band A may be made ornamental or plain and of any appropriate material. We also provide for stamping or engraving any kind of a picture, monogram, &c., upon or attaching it to the center part thereof. (See Fig. 1.)

Having thus described our invention, what we claim as new is—

1. A nailless horseshoe in which is combined a band A, partly embracing the horse's hoof, a shoe having a groove in the outer edge thereof and upward projections at its extremities, a flange formed at the lower edge of said band, and engaging with and working in said groove, sockets at both ends of said band A, screws passing through the projections upon the extremities of the shoe and engaging with said sockets upon the band, all substantially as and for the purposes set forth.

2. A nailless horseshoe of the character described comprising therein a band with a returned edge, grips attached to the shoe inside of said band and near both extremities



thereof, nuts or sockets at the ends of said band, a shoe with a groove in the outer edge thereof to receive the returned edge of said band, projections on both ends of the shoe, 5 and screws passing through said projections and engaging with the sockets in said band whereby in turning in said screws both said band and shoe are tightened, thus firmly securing them to the horse's hoof, substantially 10 as and for the purposes set forth.

3. In a nailless horseshoe, a band of any appropriate material and either plain or ornamental, teeth *f* punched out in said band and engaging the horse's hoof, a shoe engaging 15 with the lower edge of said band, and screws passing loosely through the ends of said shoe and engaging with threaded sockets in said band to tighten said band and the shoe at the same time, substantially as set forth.

20 4. A nailless horseshoe as before described with a band *n* of any appropriate material extending over the front of the hoof and near

the top, said band being in two parts and fastened by means of a screw *k* in the middle, having the extreme ends attached to the grips 25 *E*, or to the shoe near the extremities thereof, nuts or sockets with screws to securely fasten the band *A*, a shoe with a groove in the outer edge to receive the returned edge of said band, projections on both ends of the shoe, with 30 screws passing through them and engaging with said band whereby the band and shoe are firmly secured to the horse's hoof, substantially as and for the purposes set forth.

In testimony that we claim the foregoing we 35 have hereunto set our hands this 26th day of April, 1895.

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ACHSA H. REYNOLDS.  
R. N. HUDSON.

Witnesses:

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