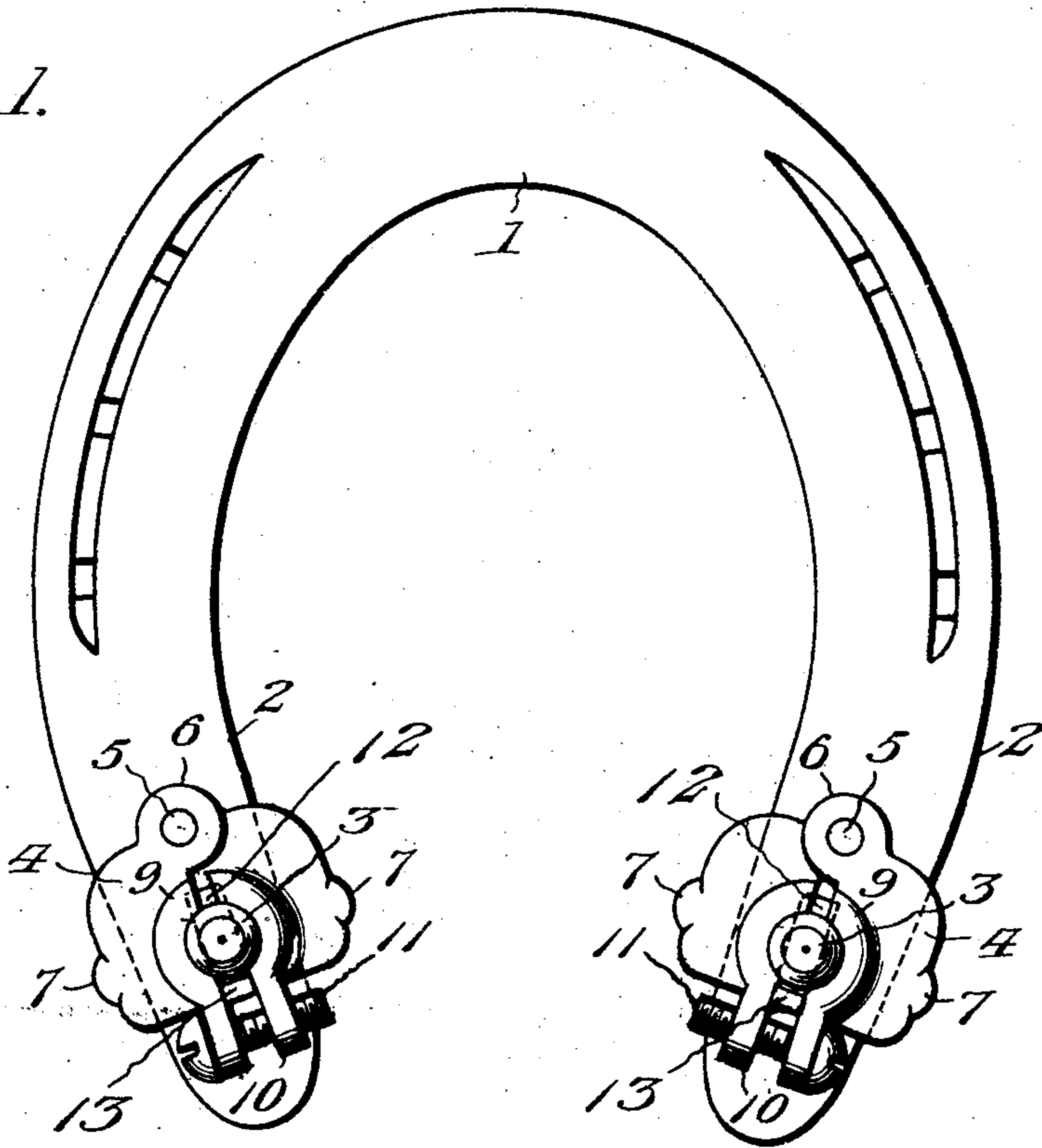


No. 779,815.

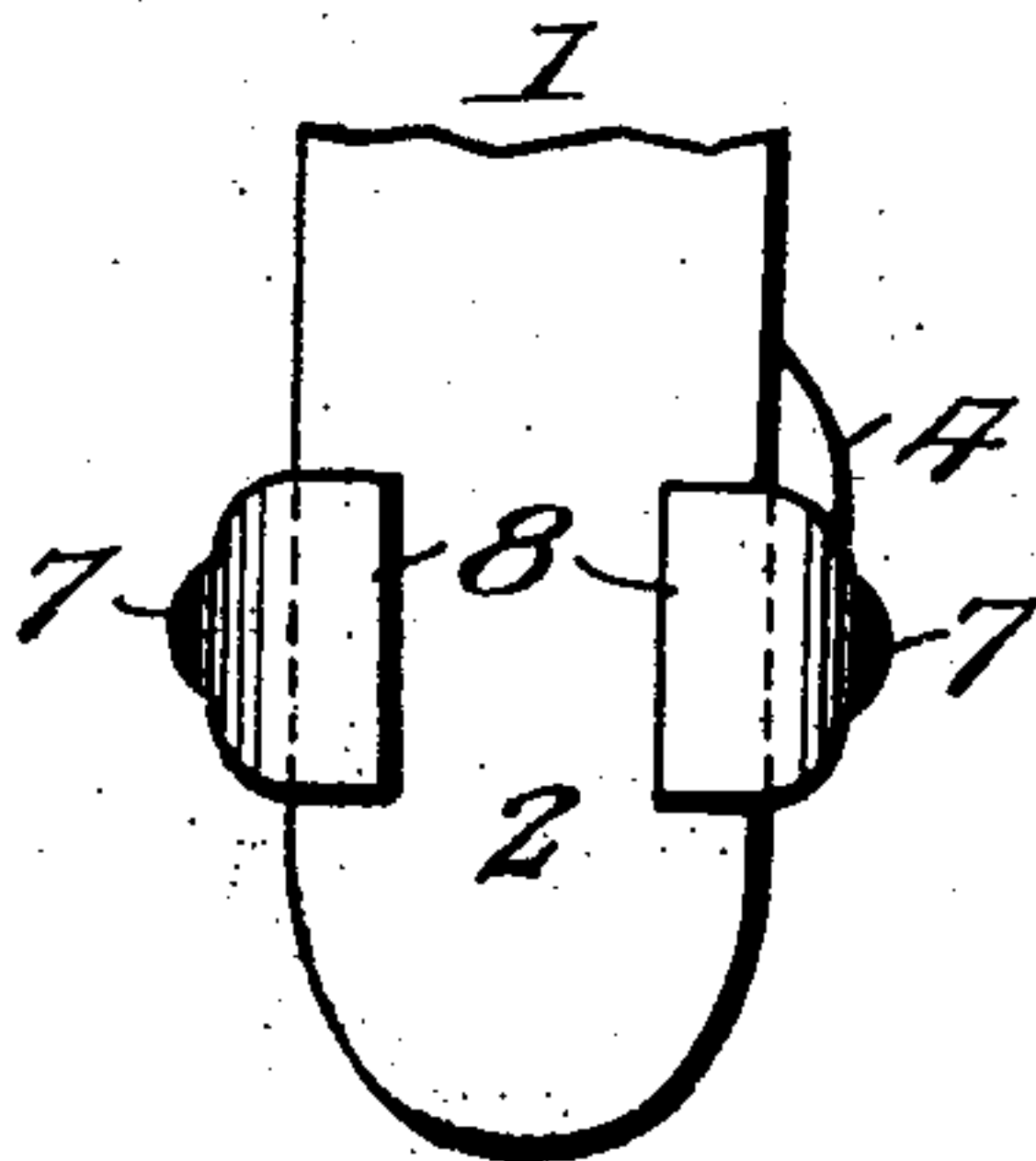
PATENTED JAN. 10, 1905.

M. STEED.  
HORSESHOE CLIP.  
APPLICATION FILED JULY 8, 1904.

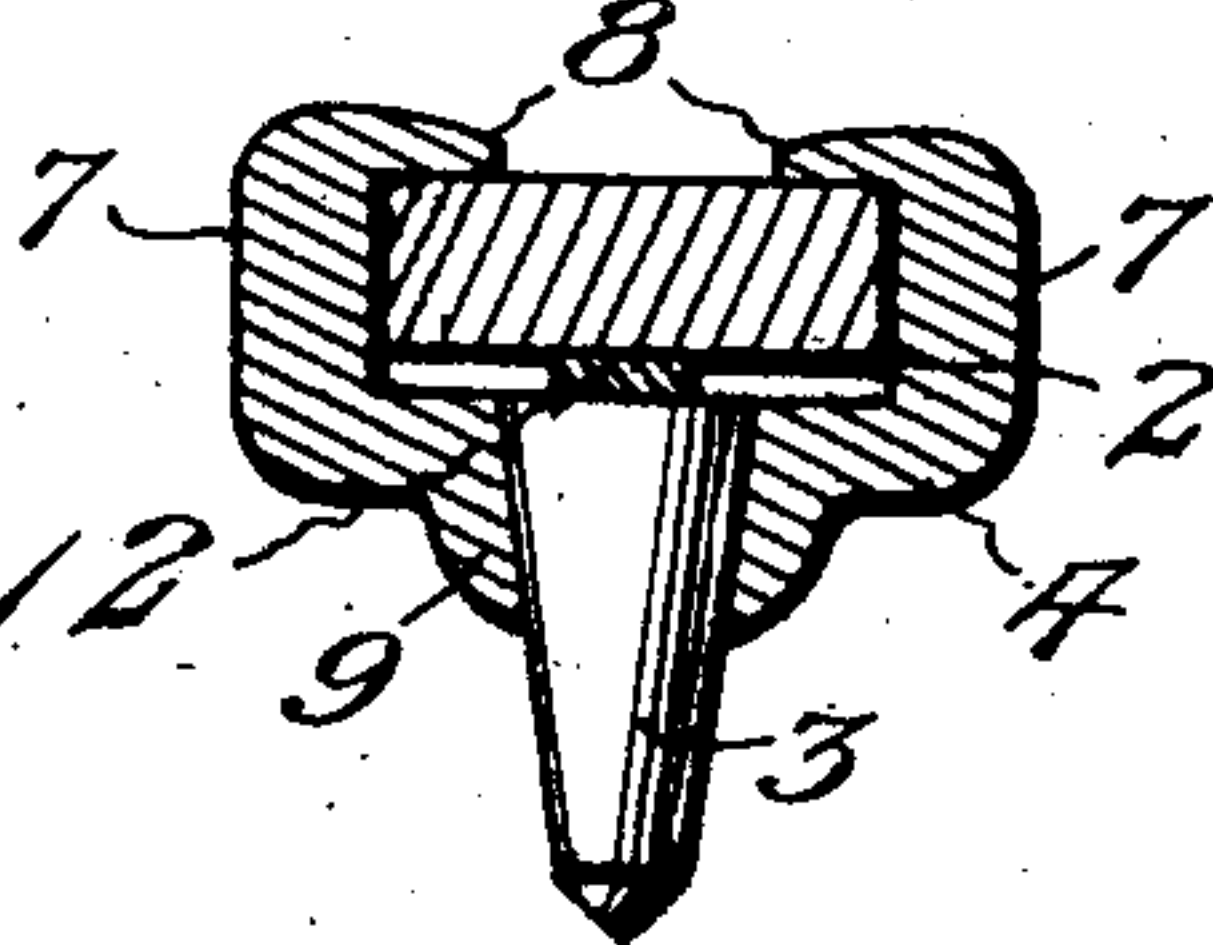
*Fig. 1.*



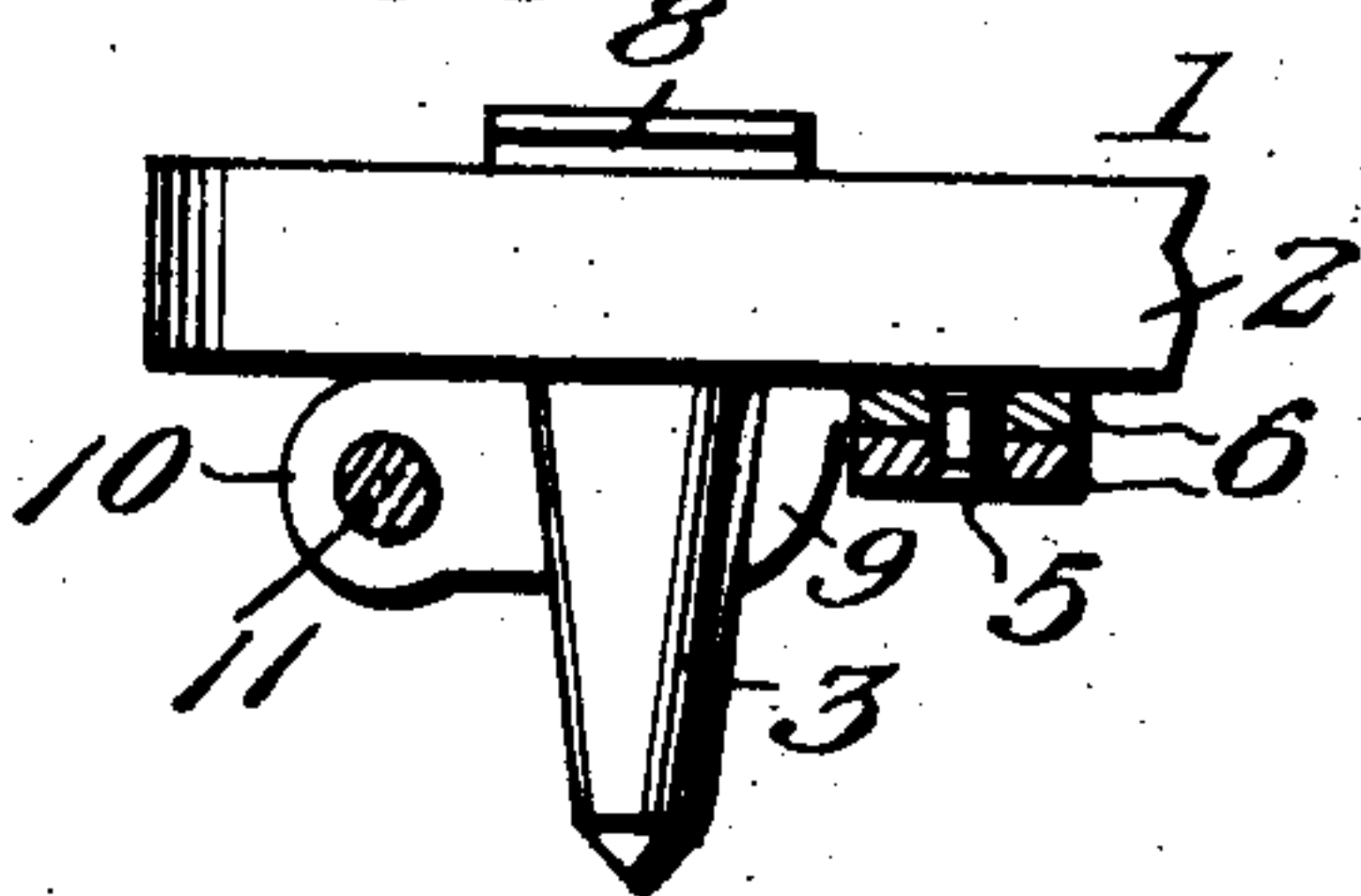
*Fig. 2.*



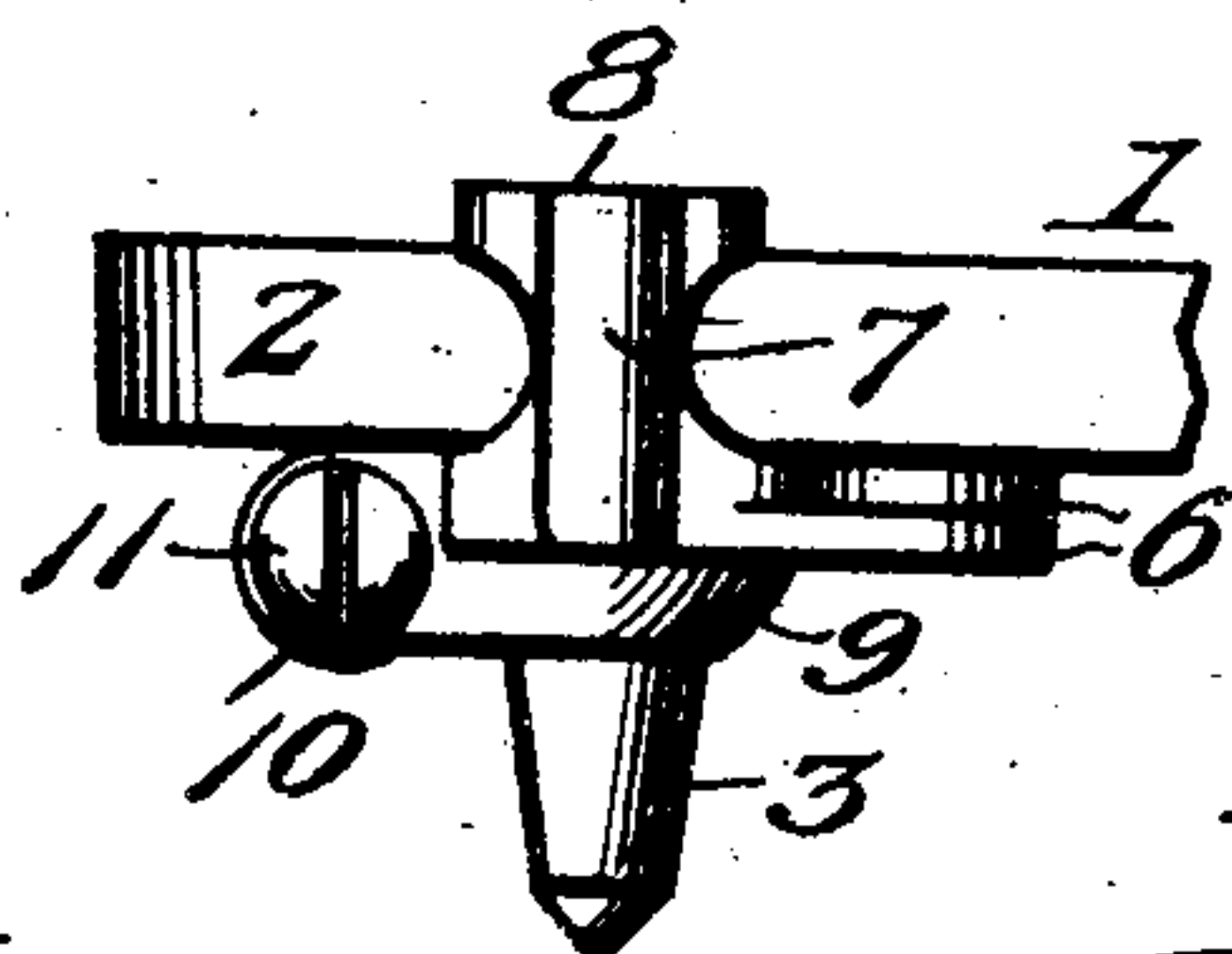
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

MICHAEL STEED, OF BOSTON, MASSACHUSETTS.

## HORSESHOE-CLIP.

SPECIFICATION forming part of Letters Patent No. 779,815, dated January 10, 1905.

Application filed July 6, 1904. Serial No. 215,500.

*To all whom it may concern:*

Be it known that I, MICHAEL STEED, a citizen of the United States of America, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Horseshoe-Clip, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to horseshoes, and has for its object to provide a simple, cheap, and effective means whereby calks may be applied to a shoe either before or after application to the hoof of an animal, the construction adapting the calks to be applied, removed, and renewed at any time.

A further object of the invention is to provide a calk applying and holding device which is applicable to any style of horseshoe and to horseshoes of different sizes.

With the above and other objects in view, the nature of which will more fully appear as the description proceeds, the invention consists in the novel construction, combination, and arrangement of parts, as hereinafter fully described, illustrated, and claimed.

In the accompanying drawings, Figure 1 is a bottom plan view of a horseshoe, showing calks applied thereto in accordance with the present invention. Fig. 2 is a detail top plan view of a portion of the shoe, showing one of the devices. Fig. 3 is a vertical cross-section through the same. Fig. 4 is a sectional view taken at right angles to Fig. 3. Fig. 5 is a side or edge elevation of the heel portion of the shoe, showing one of the devices also in elevation. Fig. 6 is a detail view of the wedging-shim.

Like reference-numerals designate corresponding parts in all figures of the drawings.

Referring to the drawings, 1 designates a horseshoe of ordinary construction, to the heel portions 2 of which calks 3 are shown applied. Each of said calks is preferably in the form of a tapered and pointed pin, as best illustrated in Figs. 3 and 4, the upper and larger end of which is adapted to abut against the bottom face of the shoe 1.

The device of this invention is in the form of a clip or clamp and comprises two substan-

tially similar members 4, which are pivotally connected together at 5, the members 4 being for that purpose provided with overlapping ears 6, through which openings are formed for the reception of the pivot 5, which is preferably in the form of a rivet, as shown in Fig. 4. Each of the members 4 comprises a jaw 7, adapted to embrace one side or edge of the shoe in the manner best illustrated in Fig. 3, which jaw terminates at its upper end in an inwardly-extending lip 8, which overhangs and bears against and engages the upper face of the shoe, as best shown in Fig. 3. The members adjacent to the calk-receiving opening are enlarged or thickened to form a boss 9, which extends downward and forms an efficient seat or step for the calk 3 and serves to brace the calk and prevent the same from wobbling or working loose, the calk thus being held in a tapering, outwardly-contracting socket between the meeting faces of the members 4 against the bottom face of the shoe. Opposite their pivotal ends the members 4 are provided with outwardly-extending lugs 10, provided with openings for the reception of a clamping-screw 11, one of the openings being threaded to receive the screw, thereby enabling the screw when turned to draw the members 4 tightly together upon the calk 3 and against the opposite side edges of the shoe. In this way the clip is at one and the same time caused to firmly engage the shoe and the calk and secure the calk to the shoe.

Where the shoe is small or narrow, a shim 12 in the form of a wedge is inserted and driven between calk 3 and the members 4 and the adjacent face of the shoe, as shown in Figs. 1, 2, and 3, so as to compensate for the reduced thickness of the shoe and enable the clip to be applied to shoes of different thicknesses. If desired, the shim or wedge 12 may be provided at one end with a shoulder 13 in the form of an outwardly-projecting lip to facilitate the extraction of the shim when it is desired to remove the clip and calk from the shoe, said lip lying behind the screw 11 and the shim or wedge being thereby prevented from becoming displaced.



By means of the construction described it will be seen that the clip is applicable to shoes of different sizes and shapes and that by simply loosening the clamping-screw a calk may be  
5 removed, renewed, resharpened, or replaced, and this can be done irrespective of whether the shoe is detached from or applied to the hoof of the animal. A number of devices may be conveniently carried in the pocket or  
10 in a vehicle and readily and quickly applied in bad weather and as easily removed when not needed for further use.

Having thus described the invention, what is claimed as new is—

15 1. A horseshoe-clip comprising pivotally-connected clamp members having means to engage a horseshoe and also having a tapering outwardly-contracting socket to receive and hold a calk.

20 2. A horseshoe-clip comprising pivotally-connected members provided with shoe-engaging jaws and calk-engaging faces, and clamping means for forcing the members toward each other to bind against the shoe and  
25 calk.

3. A horseshoe-clip comprising members pivotally connected at one end, clamping means for drawing the opposite ends of said members toward each other, and a removable

calk clamped between the meeting faces of 30 said members.

4. A horseshoe-clip comprising pivotally-connected members having shoe-engaging jaws, means for drawing said members toward each other, and a detachable calk held between 35 the meeting faces of said members.

5. The combination with a horseshoe, of a clip embodying pivotally-connected members having shoe-engaging jaws, means for drawing the members toward each other, and a detachable calk held between the members and 40 abutting against the shoe, substantially as described.

6. The combination with a horseshoe, of a clip embodying pivotally-connected members 45 having shoe-engaging jaws, a clamping-screw connecting said members, a detachable calk held between the members, and a shim interposed between the calk and shoe and provided with a shoulder which lies behind the clamp- 50 ing-screw.

In testimony whereof I affix my signature in presence of two witnesses.

MICHAEL STEED.

Witnesses:

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STEPHEN P. MAHONY.