

H. P. WENDEL.  
DETACHABLE HORSESHOE.  
APPLICATION FILED NOV. 24, 1909.

970,585.

Patented Sept. 20, 1910.

Fig. 1.

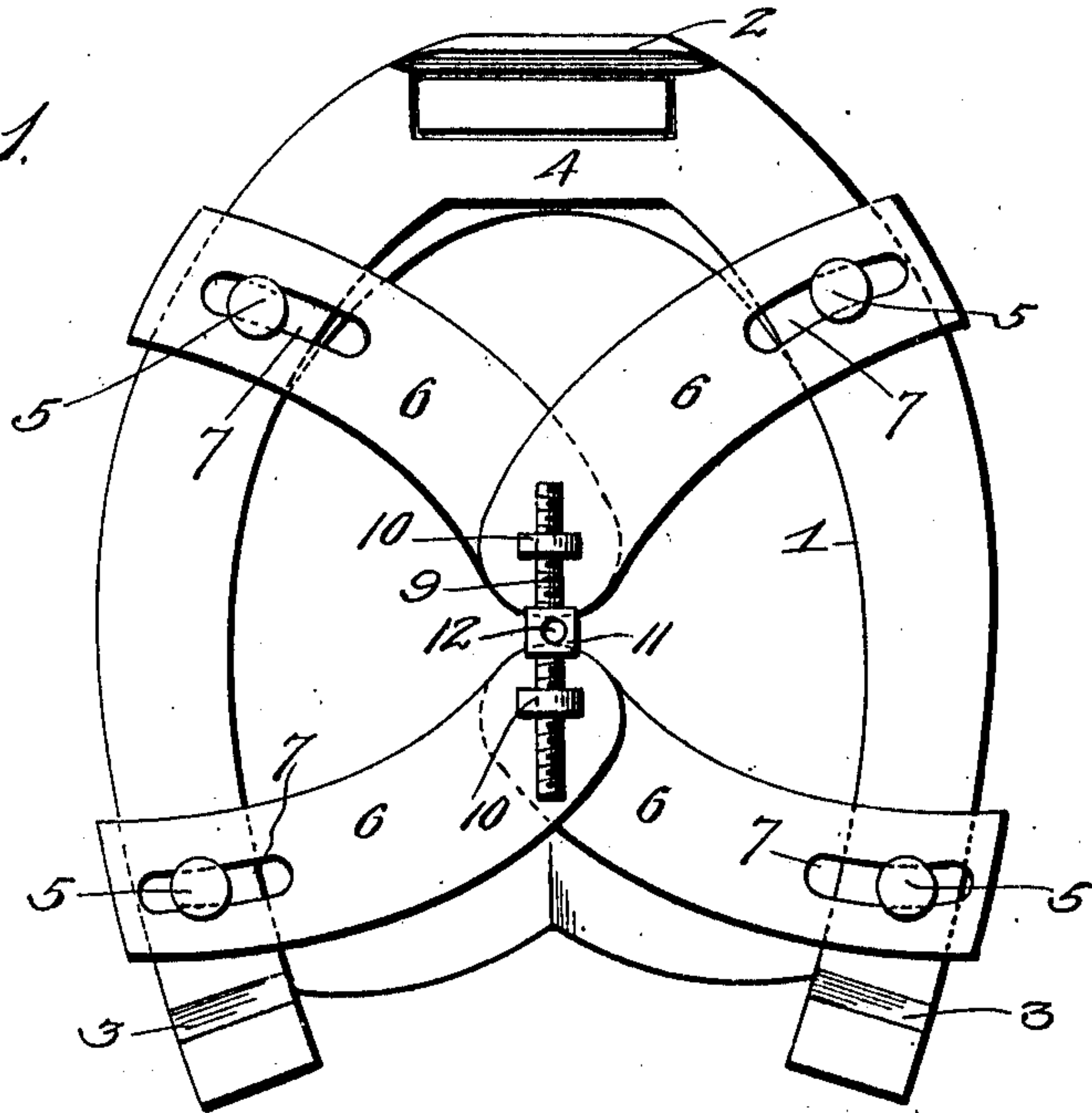


Fig. 2.

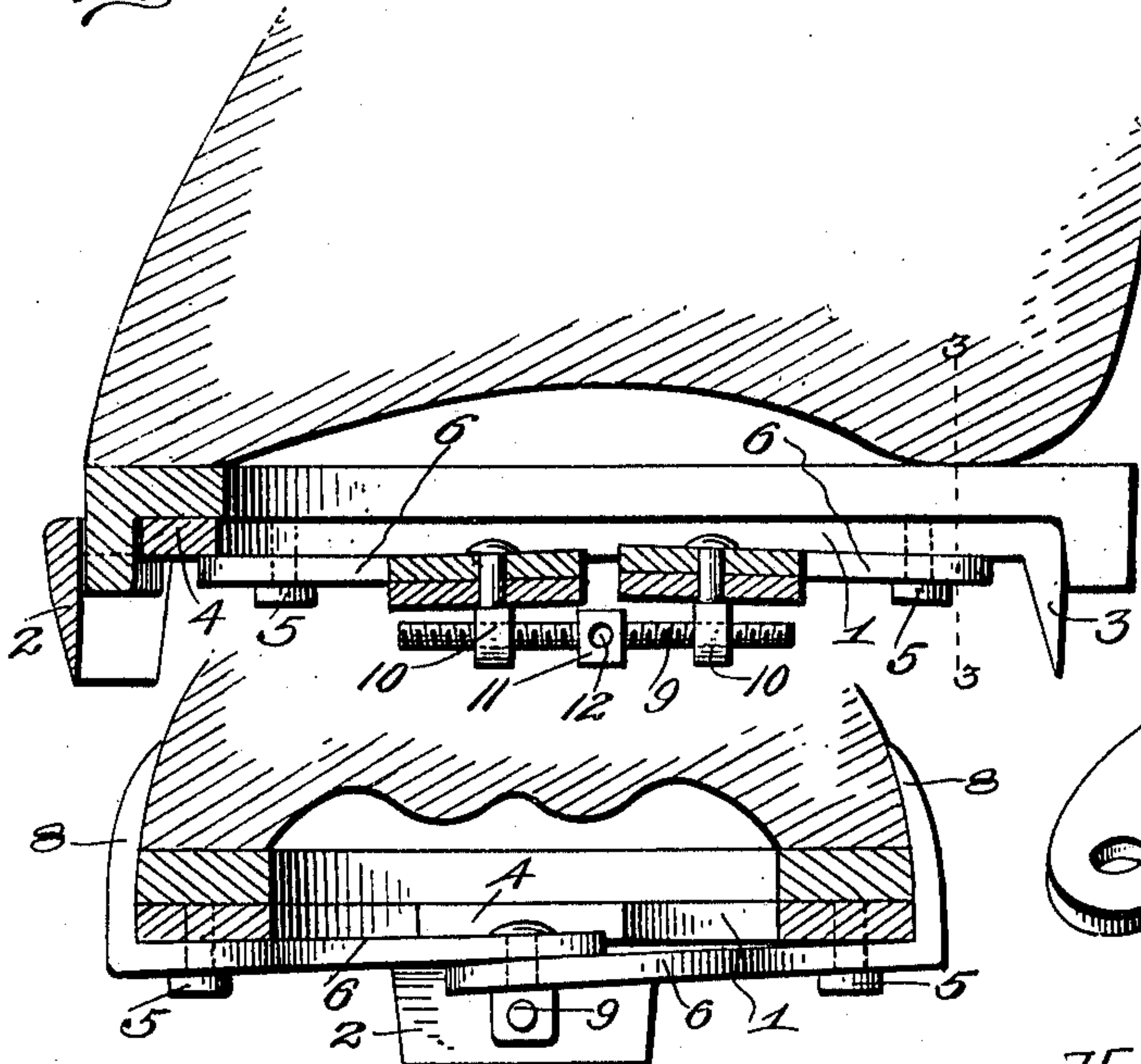


Fig. 4.

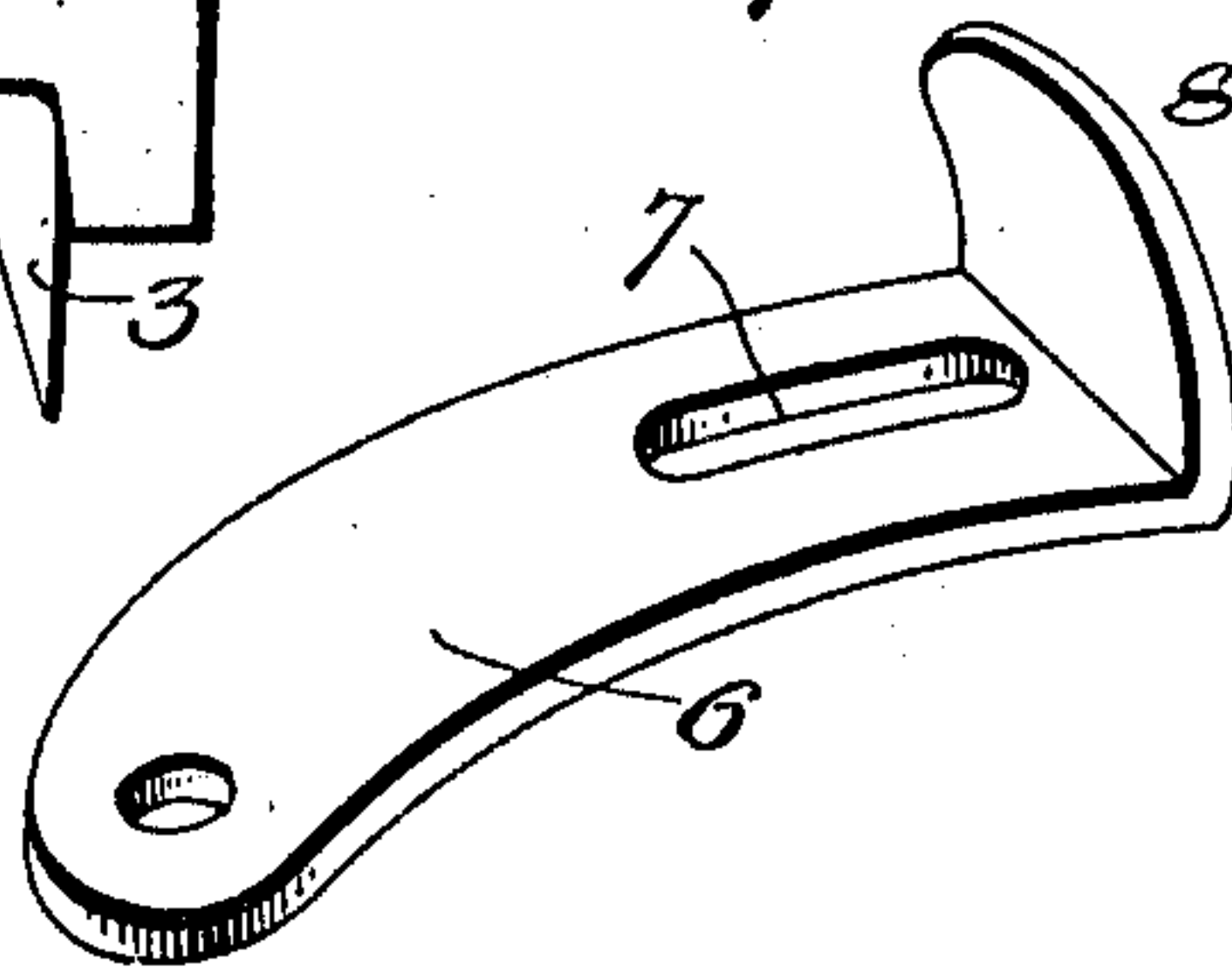


Fig. 3.

Witnesses  
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# UNITED STATES PATENT OFFICE.

HENRY P. WENDEL, OF NIAGARA FALLS, NEW YORK.

DETACHABLE HORSESHOE.

970,585.

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Application filed November 24, 1909. Serial No. 529,763.

*To all whom it may concern:*

Be it known that I, H. P. WENDEL, a citizen of the United States, residing at Niagara Falls, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Detachable Horseshoes; and I do 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.

This invention relates to improvements in detachable horse shoes.

One object of the invention is to provide an antislipping horse shoe adapted to be removably engaged with the hoof in addition to the regular shoe.

Another object is to provide a shoe of this character having adjustable attaching devices, whereby the shoe may be quickly and easily secured to and removed from hoofs of different sizes.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangements of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings: Figure 1 is a bottom plan view of my improved shoe, showing the same attached to a hoof. Fig. 2, is a central longitudinal section of the shoe and a portion of the hoof. Fig. 3, is a vertical cross-section of the same, on the line 3—3, of Fig. 2; and, Fig. 4, is a detail perspective view of one of the clamping members of the shoe.

Referring more particularly to the drawings, 1, denotes my improved detachable shoe which may be constructed of any suitable metal and is of substantially the same shape as an ordinary horse shoe and is provided at its forward end with a sharp toe calk 2 and at its rear ends with sharp heel calks 3. Adjacent to its forward or toe end, the shoe is strengthened by a transverse brace bar 4.

In the opposite sides of the shoe are secured headed guide studs 5, with which are slidably engaged curved clamping plates 6, said plates being slidably connected with the studs 5, by means of slots 7, formed therein as shown. On the outer ends of the plates 6, are formed substantially right angular hoof gripping lugs 8, which, when the clamping plates are drawn inwardly are

clamped into tight engagement with the outer sides of the hoof or with the regular shoe nailed thereto.

Any suitable means may be provided for drawing the clamping plates into engagement with the hoof; said means is here shown and preferably consists of a bolt 9, one end of which is provided with right hand threads and the opposite end with left hand threads and said right and left hand threads are operatively engaged with studs 10, having threaded apertures and which pivotally connect the inner ends of the front or rear pair of clamping plates together, as shown. In the center of the bolt 9, between the lugs 8, is rigidly secured an operating block or head 11, in the opposite sides of which are formed holes or sockets 12, with which is adapted to be engaged a nail or other suitable implement, whereby the bolt may be turned in one direction or the other to draw the clamping device 6, into engagement with the hoof or to release the same. When the shoe is arranged on the hoof the calk of the regular shoe will project between the toe calk of the detachable shoe and the brace bar 4, thus aiding in holding the shoe against movement.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claim.

Having thus described my invention, what I claim is:

A detachable horse shoe having formed thereon anti-slipping calks, a front cross bar connecting the opposite sides of said shoe, said cross bar forming with the toe of the shoe, an opening adapted to be engaged with the toe calk of the regular shoe, whereby the detachable shoe is held against slipping movement, a series of headed studs arranged on said detachable shoe, a series of curved clamping plates having formed therein slots adapted to slidably engage said studs, thereby securing said clamping plates to the shoe, hoof engaging lugs formed on the outer ends of said clamping plates, studs to pivotally connect the inner ends of the

front and rear pair of clamping plates, said  
studs having formed therein threaded aper-  
tures, a right and left hand threaded bolt  
adapted to engage the threaded apertures in  
5 said studs, and means to turn said bolt in  
one direction or the other.

In testimony whereof I have hereunto set

my hand in presence of two subscribing wit-  
nesses.

HENRY P. WENDEL.

Witnesses:

GEO. W. KNOX,

RUTH E. ELSHEIMER.