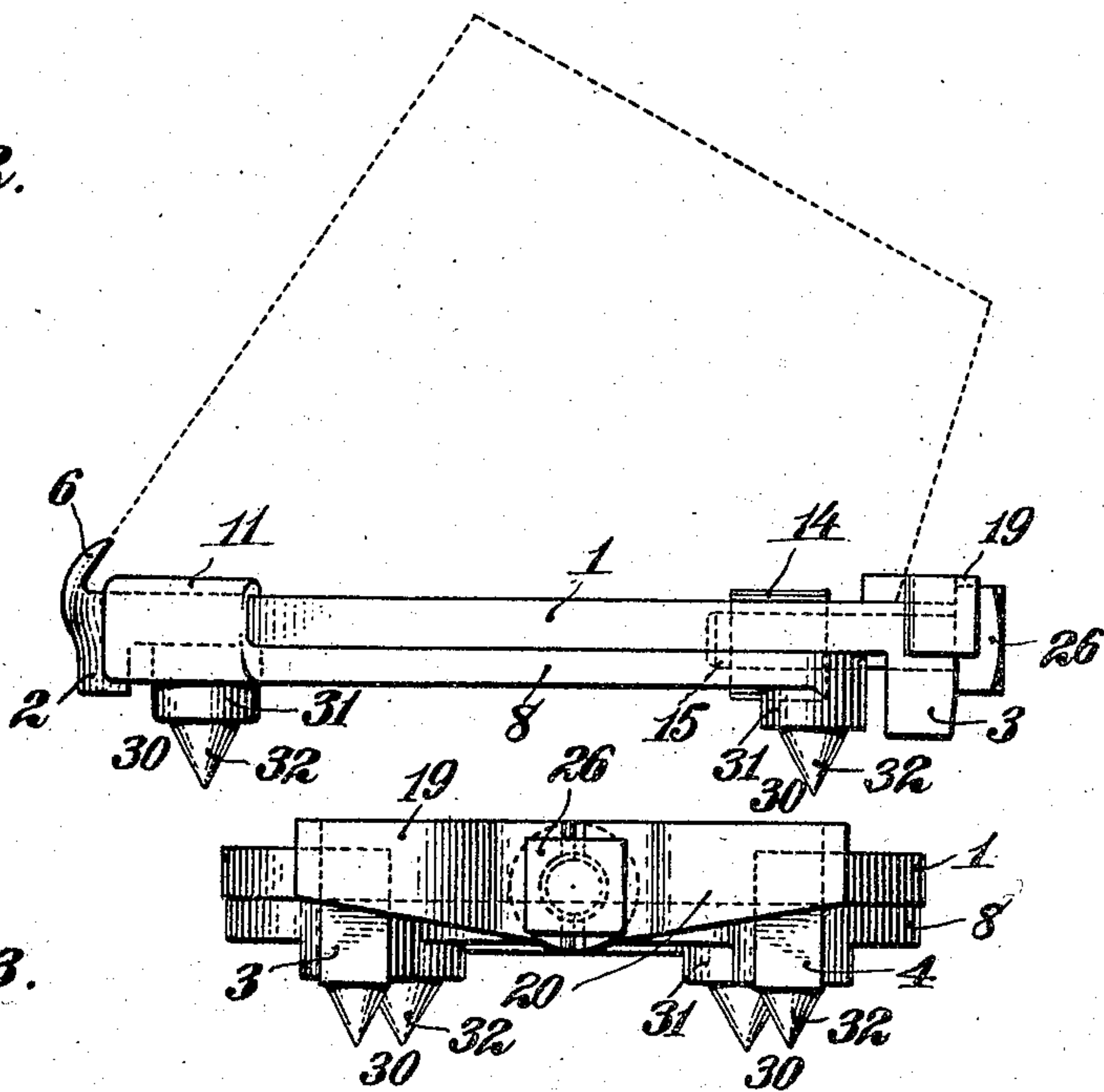


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UNITED STATES PATENT OFFICE.

OSCAR F. PETERSON, OF BROCKTON, MASSACHUSETTS.

CALK-PLATE FOR HORSESHOES.

No. 924,580.

Specification of Letters Patent.

Patented June 8, 1909.

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To all whom it may concern:

Be it known that I, OSCAR F. PETERSON, citizen of the United States, residing at Brockton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Calk-Plates for 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.

The present invention relates to detachable calk plates for use in connection with horse shoes.

The object of the present invention is to produce a strong detachable calk plate which may be readily attached to a shoe or detached therefrom when in position upon an animal's hoof, and one which requires no special or peculiar construction of shoe to enable the calk plate to be attached thereto.

With the above object in view, the present invention consists in the improved calk plate hereinafter described and claimed.

The present invention will be clearly understood from an inspection of the accompanying drawings, in which—

Figure 1 is an inverted plan view of a horse shoe with the detachable calk plate secured in position thereon; Fig. 2 is a side elevation of the shoe and calk plate shown in position upon a hoof; Fig. 3 is an end elevation of the shoe and calk plate as viewed from the right-hand side of Fig. 2; and Fig. 4 is a section taken on line 4—4, Fig. 1, but inverted.

In said drawings, a horse shoe 1 of common and well known construction, is shown having a toe calk 2, heel calks 3 and 4, and an upwardly projecting flange 6 which rests against the front portion of the hoof. Overlying the shoe 1 is a calk plate 8 composed of a frame of substantially the same contour as the shoe, and having at its toe portion flanges 10 and 11 which are bent upwardly and inwardly to embrace opposite sides of the toe portion of the shoe 1. Said flanges 10 and 11 are located upon opposite sides of the toe calk 2, and sufficient space is provided between the inwardly extending portions of said flanges and the opposing face of the toe calk to allow the calk plate to be readily applied to and removed from the shoe. A cross-bar 12 is provided at the heel portion of the calk plate, and is increased in thickness at its central portion to form a boss 14 which

is threaded to receive a bolt 15. A yoke 18 spans the heel portion of the shoe across the heel calks 3 and 4, and is provided with angular flanges 19 and 20 which are adapted to rest against the outer ends and sides of the calks 3 and 4 respectively. Said yoke is provided with a boss 22 through which the bolt 15 passes. The said boss may be provided with a transverse groove 24, which is adapted to receive a corresponding projection 25 on the inner face of the head 26 of the bolt 15. The purpose of this groove and projection is to prevent the bolt 15 from backing up when the yoke 18 has been clamped against the shoe. Removably secured to the calk plate 8 are a plurality of calks 30, which in the present instance are shown as formed with cylindrical body portions 31 and conical points 32.

In the construction above set forth it will be noted that the means for securing the calk plate to the shoe, consisting of the flanges 10 and 11, the bolt 15, and the clamping yoke 18 are all mounted upon or embodied in the calk plate and are adapted to cooperate with a horse shoe of ordinary construction and shape. The calk plate therefore does not require the use of any special or peculiar construction of horse shoe but can be readily applied to, or removed from, an ordinary shoe while on the hoof of a horse. It will also be noted that when the bolt 15 is tightened against the yoke 18, the calk plate is drawn toward the rear of the shoe, and is centered by the flanges 10 and 11, and is securely clamped in position by the flanges and the yoke. The flanges 10 and 11 engage and extend over the toe portion of the shoe while the yoke 18 engages and extends over the heel portion of the shoe so that the calk plate is securely and rigidly held against movement in any direction parallel to the shoe and is absolutely prevented from moving in a direction at right angles to the shoe.

The nature and scope of the present invention having been indicated and the preferred form of the invention having been specifically described, what is claimed is:—

1. A detachable calk plate for horse shoes, having, in combination, a frame, flanges on the frame arranged to engage the toe portion of a horse shoe, heel and toe calks carried by the frame, and located substantially beneath the shoe, a yoke arranged to

bear against the heel portion of the shoe and normally out of contact with the ground and a bolt connecting the yoke and the frame.

2. A detachable calk plate for horse shoes, having, in combination, flanges arranged to engage opposite sides of the toe portion of a horse shoe, a cross bar at the heel end of the calk plate, a yoke arranged to engage the heel end of the horse shoe and bolt connect-

ing said yoke and cross bar whereby said calk plate may be clamped upon said shoe.

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

OSCAR F. PETERSON.

Witnesses:

FRED O. FISH,
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