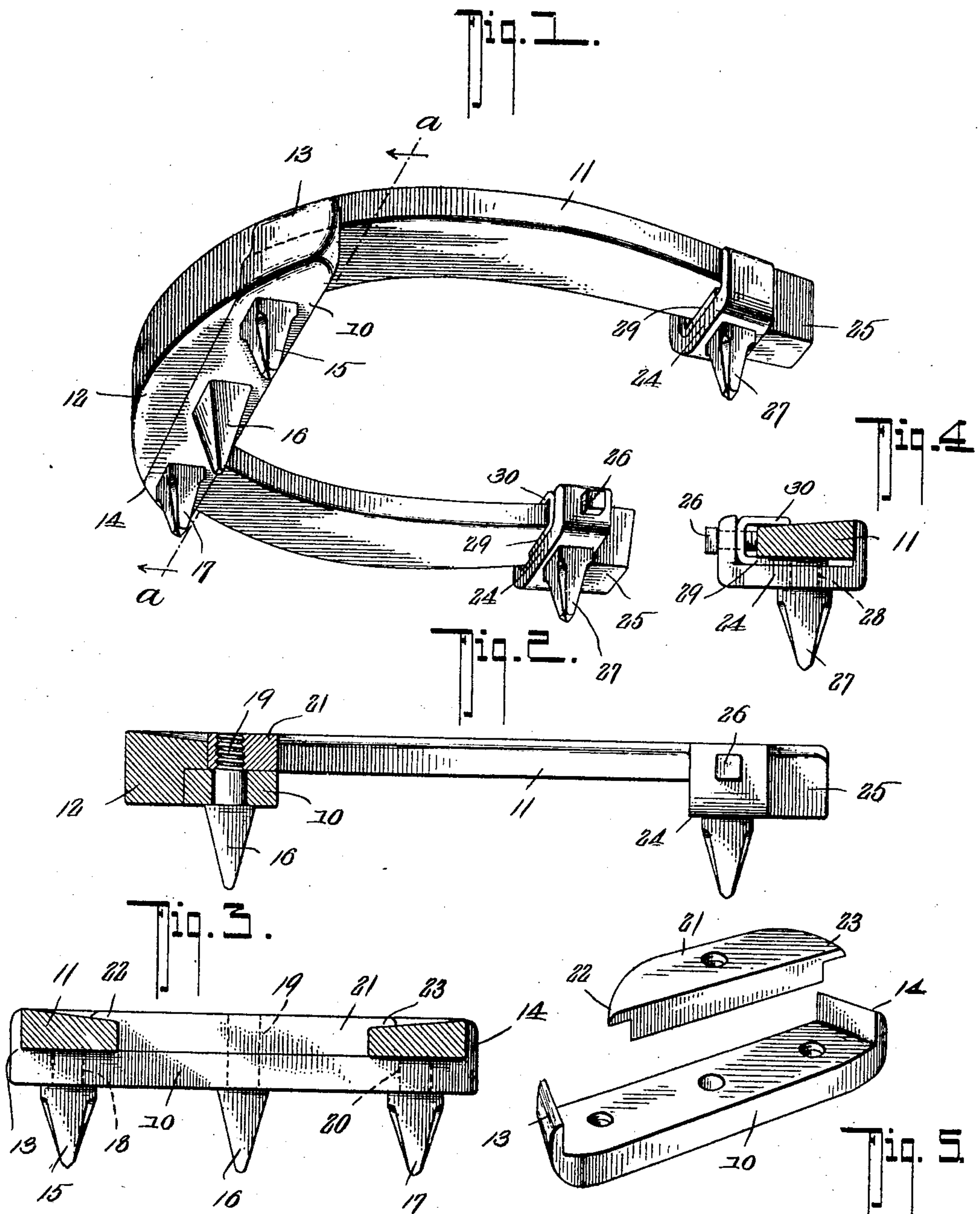


No. 810,399.

PATENTED JAN. 23, 1906.

A. L. DURN,
HORSESHOE.

APPLICATION FILED MAR. 25, 1905.



Witnesses

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AARON L. DURN, OF RICHLAND CENTER, PENNSYLVANIA.

HORSESHOE.

No. 810,399.

Specification of Letters Patent.

Patented Jan. 23, 1906.

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To all whom it may concern:

Be it known that I, AARON L. DURN, a citizen of the United States, residing at Richland Center, in the county of Bucks and State of Pennsylvania, have invented a new and useful Horseshoe, of which the following is a specification.

This invention relates to horseshoes, and has for its object to provide a simply-constructed and easily-applied supplemental calk to be attached and detached, as required, and without removing the shoe from the hoof or changing its structure.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a perspective view from beneath of a horseshoe with the improvements applied. Fig. 2 is a longitudinal section of the same. Fig. 3 is a transverse section illustrating the construction and manner of applying the toe-calks, taken on line *a a* of Fig. 1 and as indicated by the arrow. Fig. 4 is a transverse section illustrating the construction and manner of applying the heel-calk. Fig. 5 represents perspective views of the two members forming the toe-calk-holding means.

The improved device may be applied to any size or form of horseshoe and may be attached without interfering with the calks already upon the shoe.

The improved device comprises a plate 10, extending transversely beneath the shoe 11 and bearing against the rear side of the toe-calk 12 and with upturned ends 13 14 bearing against the outer edges of the shoe.

Within the plate 10 the toe-calks 15 16 17 are secured, as by threaded studs 18 19 20, the body of the calks being pointed and preferably square or of other form than round to

facilitate the attachment and removal by a wrench, pincers, or other implement.

Disposed transversely of the upper surface of the plate 10 and curved to conform with and bear against the inner side of the toe portion of the shoe is a clamp-plate 21, through which the stud 19 of the central calk 16 extends, and with the ends of the plate extended over the upper face of the shoe, as at 22 23. By this means the plate 10 is firmly clamped to the shoe and rigidly supported thereon by one single binding-screw.

If two calks only are required, which will be sufficient for the smaller sizes of shoes or those used upon lighter horses, the central calk will be replaced by an ordinary clamp-bolt; but this would not be a departure from the principle of the invention, as would be obvious.

The heel-calk portion of the device consists of frames 24, embracing the shoe at the heel and bearing against the usual heel-calks 25 and provided with a set-screw 26, bearing against the inner face of the shoe to hold the frame in position. The sharpened calks 27 are connected to the frames 24 by threaded spurs 28, and a locking-plate 29 is interposed between the frame 24 and the adjacent body of the shoe, with a rib 30 bearing above the same, the set-screw 26 passing through the lock-plate, and thus holding it in position. The frames 24 may thus be readily attached and detached when required and both sets of calks and the holding devices attached to or detached from the shoes without removal from the hoofs, while the spurs forming the calks may be attached and detached without detaching the plates 10 and 21 or the frames 24, as will be obvious.

The device is simple in construction, effective in action, may be inexpensively manufactured and applied to any form or size of horseshoe.

Having thus described the invention, what is claimed is—

1. In a horseshoe, a plate bearing against the rear face of the toe-calk and carrying supplemental calks, and having upturned ends bearing against the outer face of the shoe, and means for detachably clamping said plate to the shoe.

2. In a horseshoe, a plate bearing against the rear face of the toe-calk and carrying supplemental calks, and having upturned ends bearing against the outer face of the shoe, a clamp member bearing upon said

plate and with extended ends bearing upon the upper face of the shoe, and means for clamping said member to said plate.

3. In a horseshoe, a plate bearing against
5 the rear face of the toe-calk and carrying supplemental calks, and having upturned ends bearing against the outer face of the shoe, a clamp member bearing upon said plate and with extended ends bearing upon

the upper face of the shoe, and a bolt connecting said plate and clamp member.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

AARON L. DURN.

Witnesses:

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