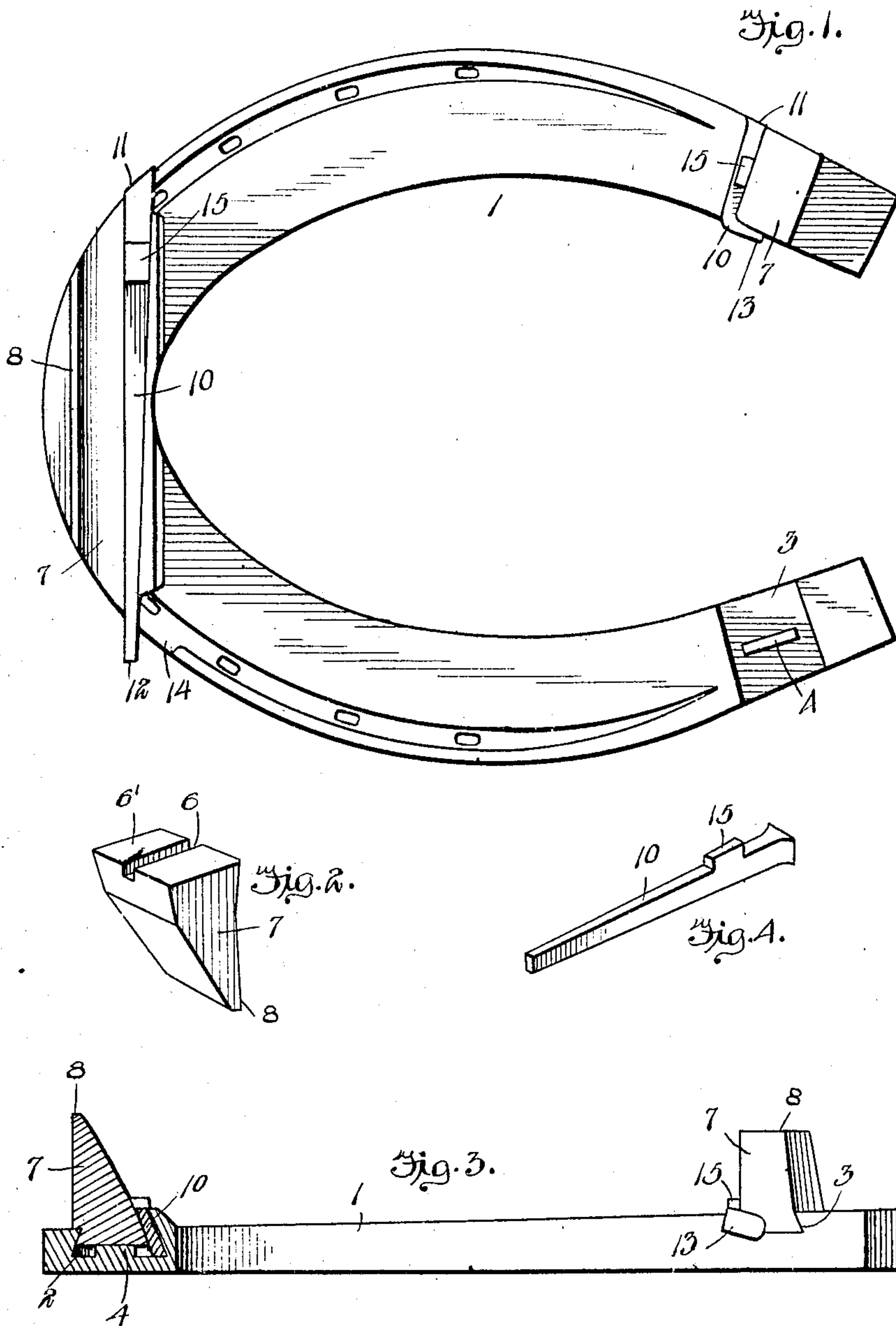


W. W. LOWER.
HORSESHOE.

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916,739.

Patented Mar. 30, 1909.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM W. LOWER, OF TYRONE, PENNSYLVANIA.

HORSESHOE.

No. 916,739.

Specification of Letters Patent.

Patented March 30, 1909.

Application filed August 8, 1908. Serial No. 447,577.

To all whom it may concern:

Be it known that I, WILLIAM W. LOWER, a citizen of the United States, residing at Tyrone, in the county of Blair and State of Pennsylvania, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification, reference being had therein to the accompanying drawing.

10 My present invention relates to improvements in horse shoes, and has special reference to a special construction of shoe, toe and heel calks, and a new method of securing the calks to the shoe.

15 To more clearly illustrate the invention, and thereby bring out the importance thereof, attention is invited to the accompanying drawings, in which—

20 Figure 1 is a bottom plan view of my improved horse shoe with the calks attached, one of the heel calks being removed to show the groove construction. Fig. 2 is a detail view of the calk removed, the toe and heel calks being of the same construction. Fig. 3 is a section through the shoe and calk when attached, and Fig. 4 is a detail view of the locking wedge pin.

Referring to the drawings:—The numeral 1 designates the shoe which is provided with the dove-tailed in cross section toe-calk groove 2, and the similarly shaped heel calk grooves 3. Centrally of these grooves and extending transversely thereof, is a centering and retaining lug or boss 4, which is adapted to the transverse slot 6, formed in the face 6', of the calks 7. The calks taper toward their wearing points 8, and are slightly narrower than the grooves 2 and 3, so that the calks may be easily slipped into said grooves and have a sliding movement upon the locking and retaining lug or boss, so that when the locking wedge pin 10, which tapers from the butt end 11 toward its entering point 12, is driven in the groove 2 or 3, the base of the calk, is forced toward the opposite face of the groove, and the calk is held securely in place, the lug or boss preventing any sidewise movement, while the pin 10, prevents any end wise movement.

In order to lock the pin 10 in place, and thereby securely hold the calks in place, after the wedge pin has been driven home, I bend the end as at 13, and seat the same in the notch or recess 14 formed in the underside of the shoe. To remove the pin 10, I provide the lug 15.

What I claim, as new is:—

1. In a horse shoe, the combination of a shoe provided with transverse dove-tailed grooves in its toe and heels, respectively, and a lug of lesser length than the width of the narrowest portion of the groove provided transversely of the groove in the body of the shoe, calks having dove-tailed portions of a lesser width than the groove of the shoe in which it is to fit, said calk being provided with a groove to slidably fit upon the stud, and a removable wedge for engaging one side of the groove and the calk and to slide the calk upon the stud and hold the calk locked in its groove of the shoe.

2. In a horse shoe, the combination of a shoe provided with transverse dove-tailed grooves in its toe and heels, said grooves each having its inner wall slightly inclined so that the walls of the groove slightly taper, a lug projecting into said groove transversely of the center thereof, said lug being of a lesser length than the width of the narrowest portion of the groove at this point, calks for the toe and heel, each having a dove-tailed attaching end of a lesser width than the dove-tailed groove of the shoe in which it loosely fits, each calk being further provided with a central transverse groove to fit slidably upon the transverse lug of the shoe, and a wedging strip tapering longitudinally adapted to wedge between the inclined wall of each groove and the opposed portion of the calk and lock the calk within its groove.

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

WILLIAM W. LOWER.

Witnesses:

D. B. MINGLE,
E. GOODWIN.