

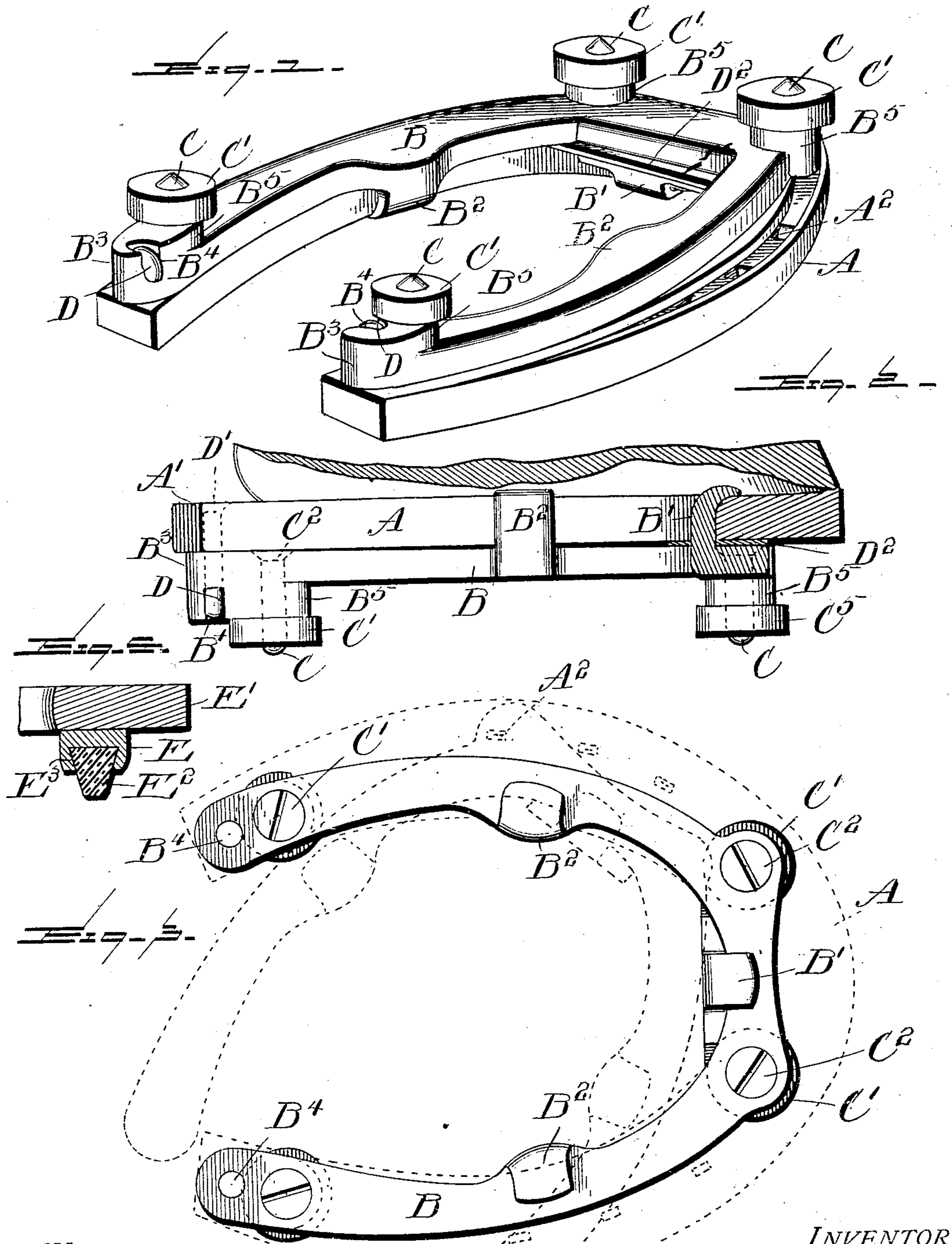
No. 713,322.

Patented Nov. 11, 1902.

C. D. MEITZLER.
HORSESHOE CALK.

(Application filed Mar. 17, 1902.)

(No Model.)



WITNESSES:

Wm. F. Doyle.
Alfred S. Gage.

INVENTOR

Charles D. Meitzler.
BY *E. B. Stocking* Attorney

UNITED STATES PATENT OFFICE.

CHARLES D. MEITZLER, OF ANACOSTIA, DISTRICT OF COLUMBIA.

HORSESHOE-CALK.

SPECIFICATION forming part of Letters Patent No. 713,322, dated November 11, 1902.

Application filed March 17, 1902. Serial No. 98,609. (No model.)

To all whom it may concern:

Be it known that I, CHARLES D. MEITZLER, a citizen of the United States, residing at Anacostia, in the District of Columbia, have invented certain new and useful Improvements in Horseshoe-Calks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to horseshoe-calks, and particularly to a holding-frame through which the calks are adapted to be applied.

The invention has for an object to provide a calk-holder comprising integral holding-lugs at the toe and opposite sides for application to an ordinary horseshoe and adapted to be secured in position by fastening devices passed through the holder and shoe at the heel thereof.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof specifically defined by the appended claims.

In the drawings, Figure 1 is a bottom perspective showing the holder applied to a shoe. Fig. 2 is a longitudinal vertical section. Fig. 3 is a top plan showing in dotted lines a shoe applied to the holder and the position of the holder as it is removed from the shoe; and Fig. 4 is a detail vertical section showing a modification of the invention, in which a soft tread is applied to the holder.

The letter A designates a horseshoe of any ordinary construction and configuration, which at the heel portion is provided with apertures A' extending therethrough. The holder B, which is adapted to receive and support the calks C, is composed of a U-shaped frame, substantially similar in outline to an ordinary horseshoe and adapted to bear upon said shoe, at the inner periphery thereof, beyond the nail-holes A², so as to secure a smooth and permanent bearing. This frame is provided at the front or toe portion with a lug B', adapted to pass over the body of the shoe and engage the upper edge thereof beneath the hoof, as shown in Fig. 2, and similar lugs B² are provided at the opposite sides of the holder and at substantially a right angle to the lug B'. The heel of the holder is provided with a thickened portion B³, having therein an aperture and recess B⁴,

adapted to receive the fastening devices passing through the heel of the holder and the shoe—for instance, the pin or nail D, which at its outer end is bent laterally into the recess B⁴ to secure the parts together. This pin D is provided with a head D' at its inner end seated in the aperture A' at the heel of the shoe. A washer or packing D² may be introduced between the shoe and holder for the purpose of securing a cushioned tread or for tightly fitting the lugs to the shoe, which may be more or less worn when the holder is applied.

The calks C are passed through thickened collars B⁵ at the toe and heel of the shoe and are provided with protecting-packings C', which may be formed of leather, rubber, or fiber, and protect the horse against injury by contact of the calks with his legs. The calks are also provided with heads C², which rest in contact with the face of the shoe and are seated within suitable recesses in the holder.

In Fig. 4 a modified form of the invention is shown in section, in which the holder E is provided with similar attaching means for application to the shoe E' to those shown in the other figures, but instead of having calks applied thereto is provided with an elastic packing seated in a groove E³ in the holder, so as to secure a cushioned or soft tread.

The holder is applied to a shoe by inserting the same within the shoe, as shown by dotted lines in Fig. 3, and turning holder laterally into the position shown by full lines, when the securing-pins D may be passed through the holder and shoe to firmly secure the parts together. The invention presents a holder provided with integral lugs and adapted for application by a single operation in the most convenient manner, so that a calk may be applied to the ordinary shoe on short notice without the necessity of employing the services of a blacksmith. Furthermore, all of the lugs are integral with the frame of the holder and all of the parts are in fixed relation, so that no adjustment is necessary, as the holders can be conveniently manufactured for different sizes of shoes and at a minimum cost of production.

It will be obvious that changes may be

made in the construction and configuration without departing from the spirit of the invention as defined by the appended claims.

Having described my invention and set forth its merits, what I claim, and desire to secure by Letters Patent, is—

1. A calk-holder comprising an open rigid frame having upon its inner edge at the toe and side portions lugs to engage the inner edge of a shoe and at its heel securing means adapted to be attached to a shoe, substantially as specified.

2. A calk-holder comprising an open frame having upon its inner edge a toe-lug and opposite side lugs to engage a shoe and at its heel securing means adapted to be passed through a shoe, and calks passed through said frame at the heel and toe portions and provided with a head upon the upper face of the frame to bear against a shoe, substantially as specified.

3. A calk-holder comprising a U-shaped frame, a projecting lug at the toe of said frame adapted to embrace a shoe, opposite lugs upon the sides of the holder at a right angle

to the toe-lug, a thickened body at the heel of the holder provided with an aperture and recess adapted to receive the shank and bent end of a securing-pin passed through a shoe, substantially as specified.

4. A calk-holder comprising a U-shaped frame, a projecting lug at the toe of said frame adapted to embrace a shoe, opposite lugs upon the sides of the holder at a right angle to the toe-lug, a thickened body at the heel of the holder provided with an aperture and recess adapted to receive the shank and bent end of a securing-pin passed through a shoe, thickened collars at the heel and toe of said holder, calks passed through said collars, and a packing extending around said calks and resting upon said collars, substantially as specified.

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

CHARLES D. MEITZLER.

Witnesses:

E. B. STOCKING,
ALFRED T. GAGE.