H. HUTH.

HORSESHOE ATTACHMENT.

APPLICATION FILED NOV. 8, 1909.

957,884. Patented May 17, 1910.

FIG. 1.

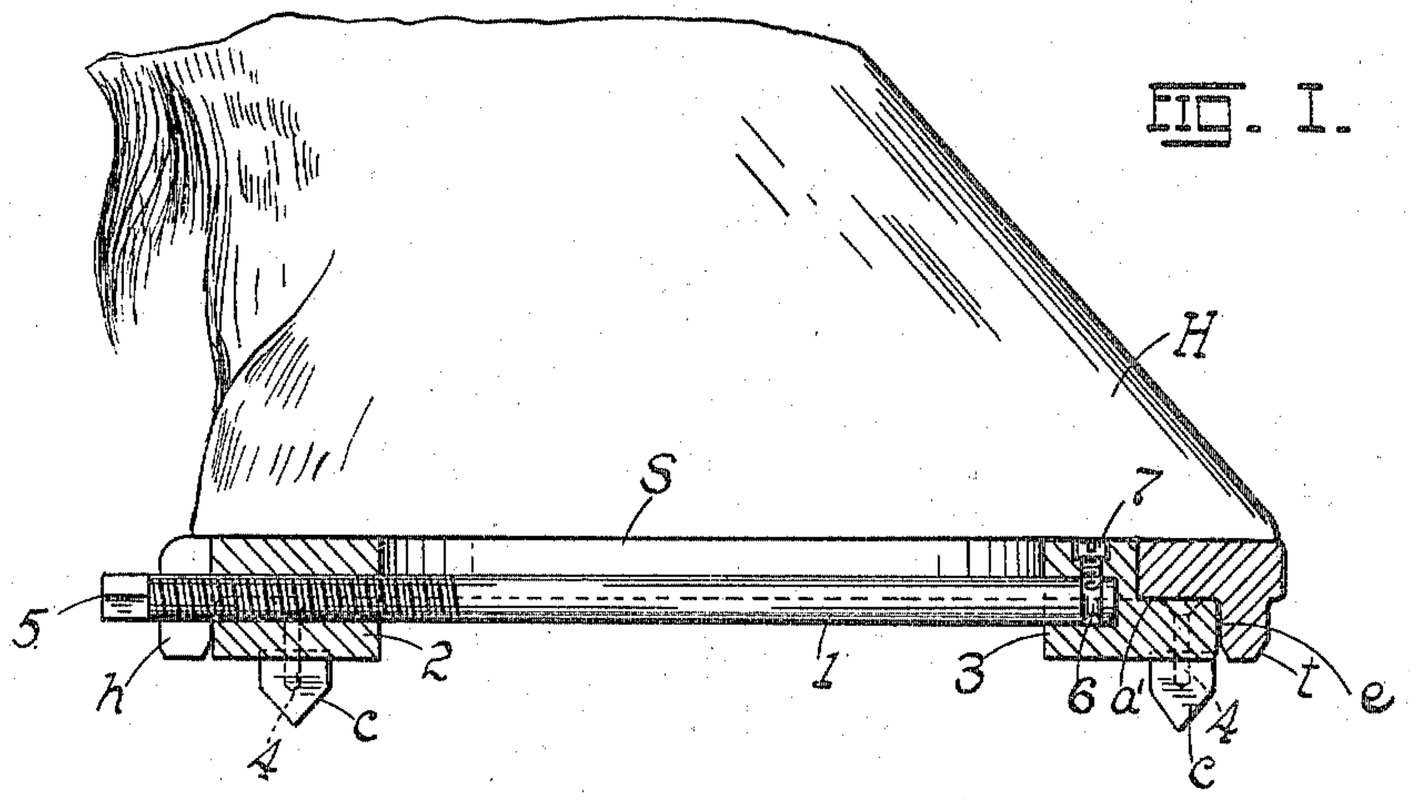


FIG. 2.

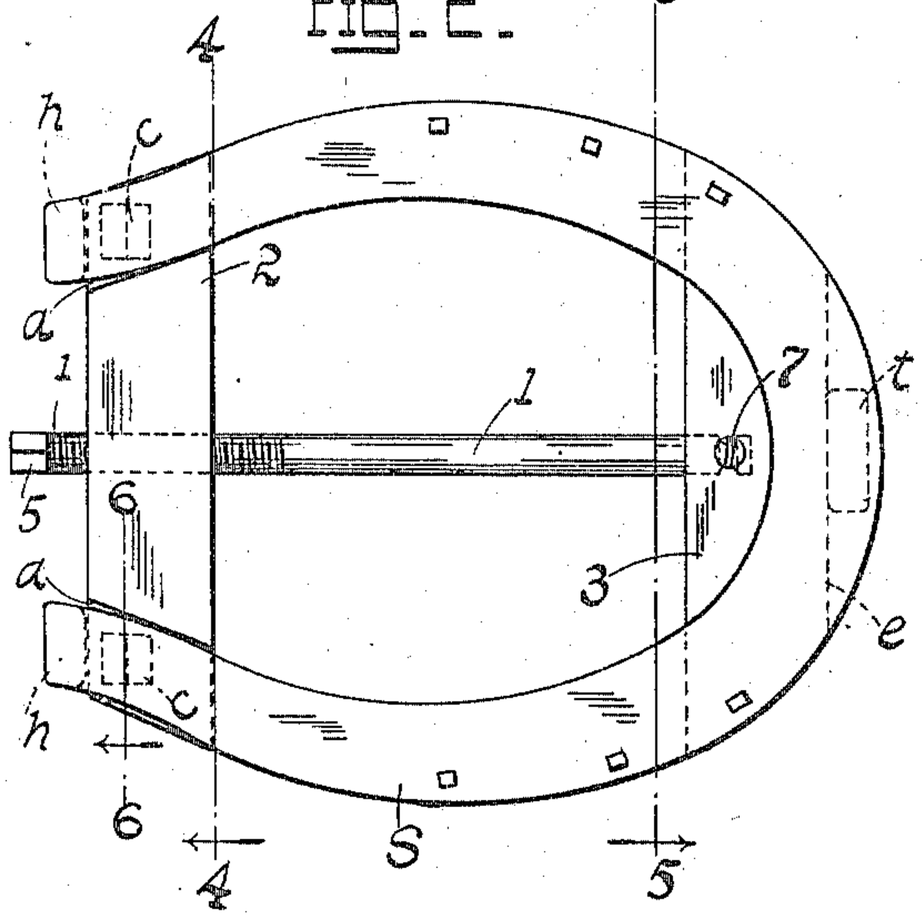
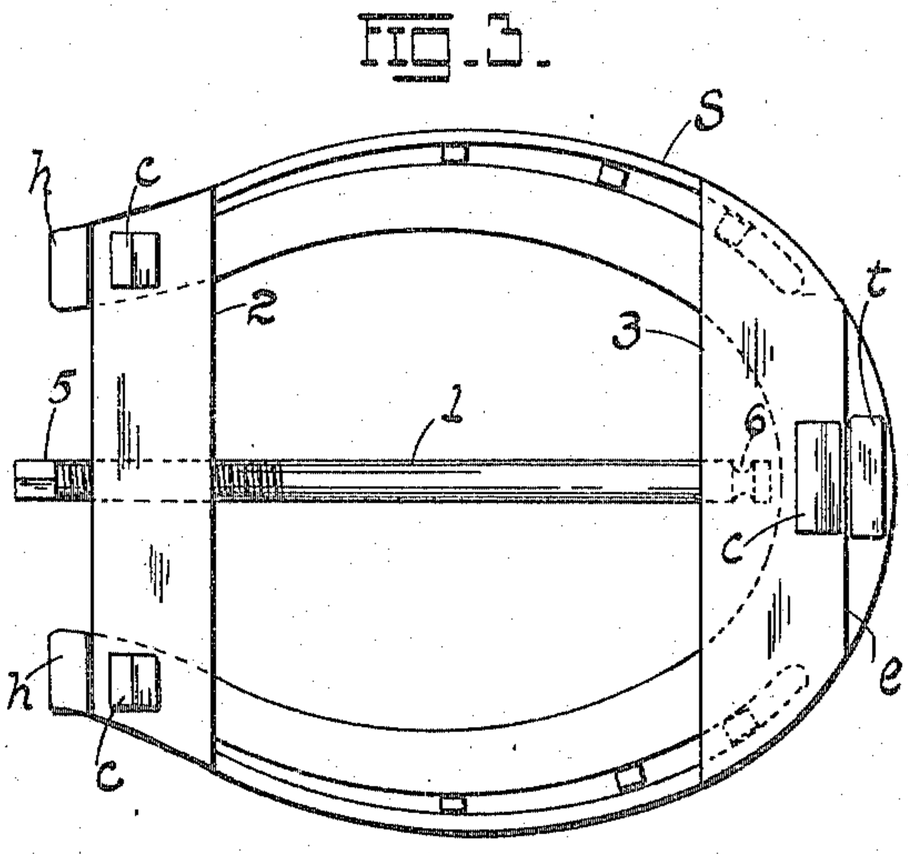


FIG. 3.



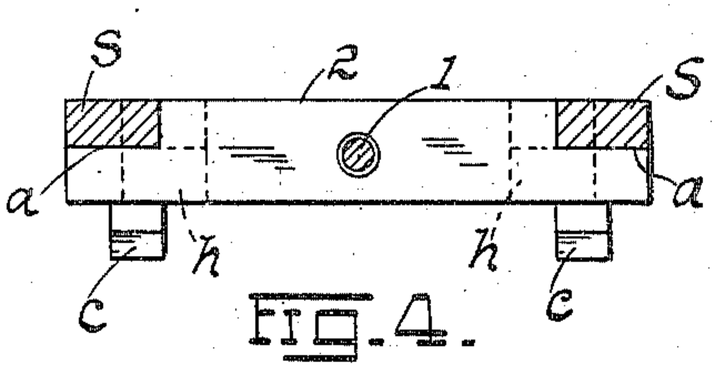


FIG. 4.

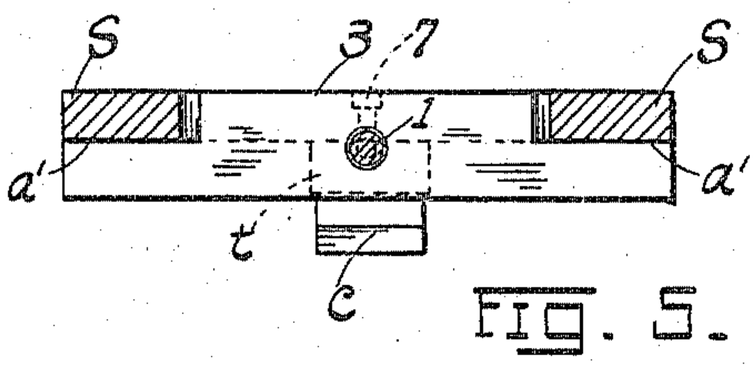


FIG. 5.

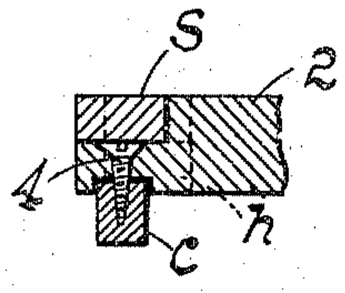


FIG. 6.

WITNESSES:

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HORSESHOE ATTACHMENT.

957,884. Specification of Letters Patent. Patented May 17, 1910.

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To all whom it may concern:

Be it known that I, HERMANN HUTH, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Horseshoe Attachments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in horse-shoe attachments; and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claims.

In the drawings, Figure 1 is a side elevation of a hoof showing the shoe and its attachment in longitudinal middle vertical section; Fig. 2 is a top plan of the shoe with the attachment in place; Fig. 3 is a bottom plan of the same; Fig. 4 is a vertical cross section on the line 4—4 of Fig. 2; Fig. 5 is a vertical cross-section on the line 5—5 of Fig. 2; and Fig. 6 is a sectional detail on the line 6—6 of Fig. 2.

The object of my invention is to provide a calk attachment for horse shoes which may be temporarily secured to the ordinary shoe on special occasions, as for example where the animal is to travel over ice, snow and slippery roads, the attachment being readily removed from the shoe when the latter can be utilized for general service.

The invention resides in structural details the advantages of which will be apparent from a description thereof which is as follows:—

Referring to the drawings, S, represents an ordinary shoe secured to the hoof H of the animal as usual, the shoe being provided with a toe calk *t* and heel calks *h*, *h*.

Mounted respectively on the screw threaded and smooth portions of an adjusting stem 1 are a relatively adjustable rear wedge or block 2 and an abutment or front block 3, each block being recessed or cut away to a sufficient depth to afford supporting ledges *a*, *a*, *a'*, *a'*, respectively for the shoe S, the depth of the recesses being such as to bring the upper surface of the shoe flush with the corresponding surfaces of the blocks, and thus afford a maximum supporting surface for the hoof H. The bottom faces of the blocks 2 and 3 are provided respectively with calks *c* which are removable for purposes of renewal, being secured by screws 4. The front vertical wall or edge *e* of the block 3 is straight so as to afford a better bearing for the front or toe calk *t* of the shoe S, (Figs. 2, 3), when the attachment is in place. The outer or rear end of the stem 1 terminates in a square or polygonal head 5 for receiving the socket of a wrench or key (not shown) by which the stem may be rotated. The forward end of the stem terminates within the block 3 in an annular groove 6 for the reception of the inner end of a securing screw 7 which, while it permits the stem to freely rotate within the block or abutment 3, prevents its accidental withdrawal.

In applying the attachment, the same is placed with the supporting ledges *a*, *a'* of the respective blocks 2, 3 against the bottom of the shoe, the toe calk *t* engaging the front edge *e* of the block or abutment 3, and the curvature of the recessed portion (following as it does the curvature of the inner edge of the shoe) abutting against the inner edge of the shoe opposite the toe (Figs. 2, 3). The operator then imparts the necessary rotation to the stem 1, whereby the block or wedge 2 is forced outwardly and rearwardly, the sides of the block wedging themselves firmly between the converging edges of the sides of the shoe, by which time the heel calks *h*, *h*, are in substantial engagement with the rear straight wall of the wedge, thus preventing the accumulation of dirt between the engaging surfaces. In the wedging of the block 2 between the sides of the shoe, the relatively stationary block 3 serves in the nature of an abutment against which the stem 1 may brace itself. Once the block 2 is thoroughly wedged in place, the attachment remains on the shoe until loosened and detached therefrom. This removable calk-attachment is serviceable especially in winter when it is not desirable to remove the shoe S for the special sharpening of its calks to travel over slippery surfaces.

Having described my invention, what I claim is:—

1. In combination with a horse-shoe having opposite plane parallel faces, a calk-attachment comprising a front and rear block having ledges for the support of the shoe, and recessed to bring the upper surfaces of the blocks flush with and in the plane of the corresponding surface of the shoe, the front block having a curved vertical wall abutting against the inner curved edge of the shoe opposite the toe, and the rear block having tapering sides adapted to wedge against the

inner edges of the sides of the shoe, a screw-stem connecting the blocks, and adapted to advance the wedge or rear block to proper position to effect the necessary engagement with the sides of the shoe, substantially as set forth.

2. In combination with a horse-shoe having opposite plane parallel faces, a calk-attachment comprising a front and rear block having ledges for the support of the shoe, and recessed to bring the upper faces of the blocks flush with and in the plane of the corresponding face of the shoe, the front block having a curved vertical wall abutting against the inner curved edge of the shoe opposite the toe, and a straight edge or wall for engaging the toe-calk of the shoe, and the rear-block having vertical tapering walls for wedging against the inner edges of the sides of the shoe, an adjusting screw operating loosely in the front block, and having a screw-threaded portion for adjusting the position of the wedge or rear block, the rear terminal of the stem having means for the application of a wrench or equivalent tool, substantially as set forth.

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

HERMANN HUTH.

Witnesses:

EMIL STAREK,

JOS. A. MICHEL.