J. H. HERSHBERGER.

HORSESHOE CALK.

APPLICATION FILED JUNE 22, 1911.

1,010,048. **Patented Nov. 28, 1911.**

FIG. 1.

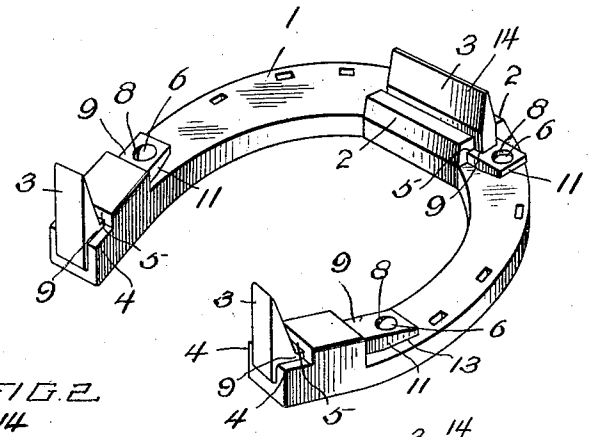


FIG. 2.

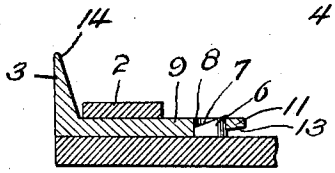


FIG. 3.

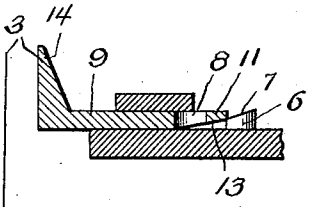
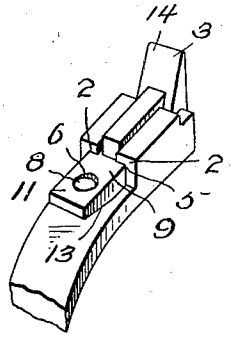
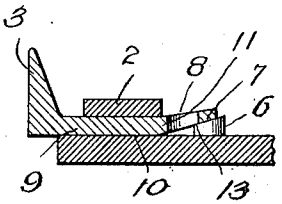


FIG. 5.





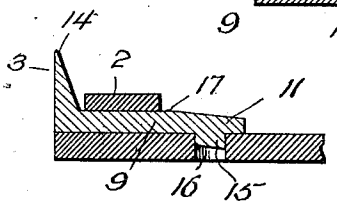


FIG. 4.

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HORSESHOE-CALK.

1,010,048. Specification of Letters Patent. Patented Nov. 28, 1911.

Application filed June 22, 1911. Serial No. 634,840.

To all whom it may concern:

Be it known that I, JOHN H. HERSHBERGER, a citizen of the United States, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented new and useful Improvements in Horseshoe-Calks, of which the following is a specification.

My invention relates to removable calks for horseshoes.

The object of my invention is to produce a calk for horseshoes which may be readily attached and detached from the shoe, and which while in position is securely held against displacement.

A further object of my invention is to provide a calk comprising a plate or shank adapted to be detachably carried on the toe or heel of a horseshoe, having a tapered projecting spur and an elongated beveled spring end having an eye therein adapted to snap over a beveled lug on the shoe and hold the calk in position, and a still further object thereof is to produce a more simple, cheap and efficient article of said class than has heretofore been attained.

To these ends, my invention includes the combinations and arrangement of component parts to be hereinafter described and more particularly pointed out in the claims.

In the accompanying drawings in which like reference characters indicate similar parts, Figure 1 is a perspective view of a horseshoe showing my calks attached; Fig. 2 is a longitudinal sectional view of the heel calk and shoe with the calk in position thereon; Fig. 3 illustrates progressive positions of the calk during its insertion on the heel of the shoe; Fig. 4 is a modified form of my invention in which the lug and eye are reversed on the parts, and Fig. 5 is a perspective view of a modified form of the heel socket for holding my calk.

Referring now to the drawings, 1 indicates a horseshoe of ordinary form, provided at the toe with parallel angle ribs 2 forming between the same a socket for the reception of the calk 3 hereinafter described.

At each end of the shoe a similar socket for the heel calks may be formed as shown in Fig. 5 of the drawings, but in the preferred embodiment of my invention, I provide longitudinal parallel ribs 4 adjacent to the ends of the shoe 1 which communicate with the sleeve 5 into which the shank 9 of the heel calks may be snugly fitted.

Adjacent to one end of the toe ribs 2 and adjacent to the inner ends of the heel sockets 5, I provide lugs 6 having beveled faces 7 adapted to engage the eyes 8 in the spring ends 11 of the calks 3.

As shown in the drawings, my calk 3 comprises a shank 9 adapted to be carried in the heel or toe sockets on the horse-shoe, having at one end an elongated spring extension 11 provided with an eye 8 adapted to snap over the beveled lug 6 on the shoe. For the purpose of facilitating the engagement and disengagement of the spring end 11 with said lug, the outer end of the former, adjacent to the face of the shoe, is beveled at 13 to enable it to ride over the end of the lug 6 when being inserted, and to afford a place for inserting a tool for prying it out of engagement therewith for removal.

The lower face of the shank 10 is provided with a projecting spur 14 adapted to prevent slipping. As shown in Fig. 1, said spur may be elongated and extend along the face of the shank of the calk, and when adapted to the heel calk, it is placed at one end thereof and projects from the heel of the shoe as shown in Fig. 2.

In the modified form of my invention shown in Fig. 4 of the drawings, the elongated spring extension of the shank 3 is provided with a beveled lug 15 adapted to snap into an eye 16 in the horse-shoe adjacent to the end of the socket 17.

In attaching my calk to the horse-shoe, the beveled end of the shank is driven into the socket until it encounters the lug on the face of the shoe, when the beveled face thereof rides over the beveled face of the lug until the eye in the shank registers with lug and snaps over the same when the calk is securely held in position. In detaching the same, the spring end is pried over the face of the lug and then may be readily driven out of the socket to make room for a new calk.

The construction and operation of my invention may be readily understood from the foregoing description and by reference to the accompanying drawings, and it will be appreciated that the parts and combinations thereof may be varied within a wide range from the specific exemplification shown with-

out departing from the spirit and scope of my invention.

Having thus described my invention, what I claim as new and desire to be secured by Letters Patent, is—

1. The combination with a horse-shoe having sockets at the heels and toe thereof, of detachable calks carried therein comprising a shank provided with a projecting spur and an elongated spring portion having an eye therein adapted to snap over a lug carried on the face of the shoe, substantially as described.

2. The combination with a horse-shoe having a socket therein, of a calk adapted to be detachably secured in said socket comprising a shank provided with a projecting spur and an elongated beveled spring portion having an eye therein adapted to snap over a lug on the face of the shoe, substantially as described.

3. The combination with a horse-shoe having a socket therein and a beveled lug adjacent to one end thereof, of a detachable calk carried therein comprising a shank provided with a projecting spur and an elongated beveled spring portion having an eye therein adapted to ride over said lug and secure the shank in said socket, substantially as described.

4. The combination with a horse-shoe, of parallel angle ribs on the face thereof forming a calk socket, a beveled lug adjacent to one end thereof, a detachable calk carried in said socket comprising a shank provided with a projecting spur and an elongated beveled spring portion having an eye therein adapted to ride over said lug and secure the calk in said socket.

In testimony whereof, I have hereunto signed my name to this specification, in the presence of two subscribing witnesses.

JOHN H. HERSHBERGER.

Witnesses:
CORA D. CAMPBELL,
J. D. CRESLING.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."