

G. ROBINS.
HORSESHOE.

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1,036,718.

Patented Aug. 27, 1912.

Fig. 1.

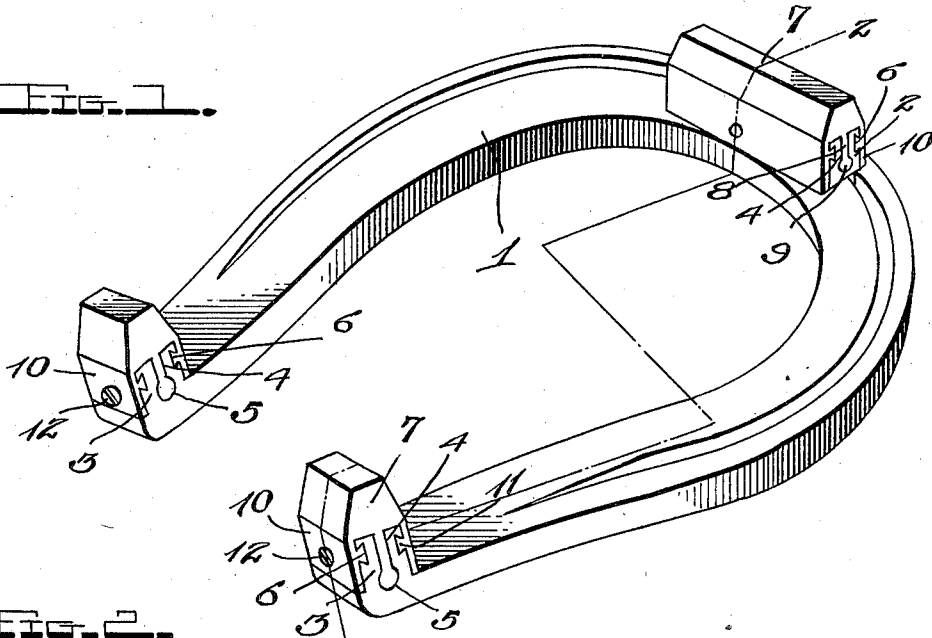


Fig. 2.

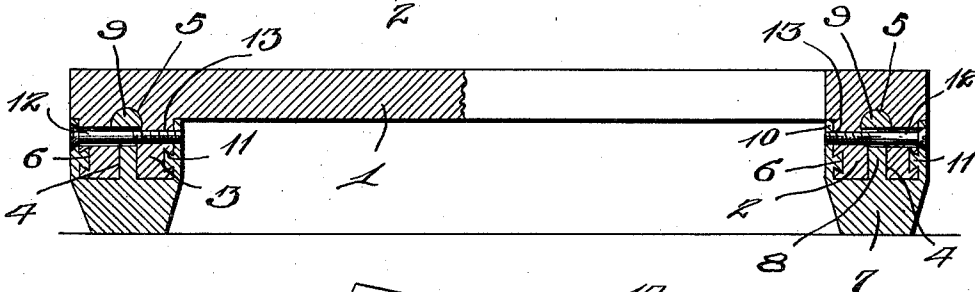
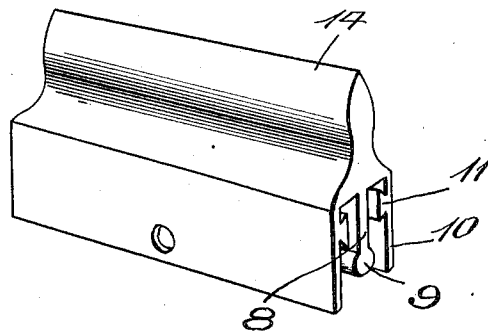


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE ROBINS, OF JACKSON, MICHIGAN.

HORSESHOE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE ROBINS, a citizen of the United States, residing at Jackson, in the county of Jackson and State of Michigan, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to new and useful improvements in horseshoes and more particularly to a means for securing calks thereto and my object is to provide an improved means for securing calks to a shoe which will admit of ready application and interchangeability.

A further object of the invention resides in providing projections on the heel and toe portions of the shoe, which projections are provided with slots terminating in sockets and another object resides in providing various types of calks having extensions or rods thereon adapted to enter the slots and sockets of the projections of said shoe.

Still another object of the invention resides in the provision of depending flanges formed on the side edges of the calks which flanges are adapted to be disposed in similarly designed channels on the outer faces of said heel and toe portions of the shoe.

A further object resides in the provision of additional means to secure the calks to the projections of the shoe, which means may be readily operated, and a still further object of the invention resides in providing a device which is extremely simple and durable in construction, inexpensive to manufacture and one which will be very efficient and useful in operation.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application, Figure 1 is a perspective view of the shoe showing my improved calk attachment applied to use thereon. Fig. 2 is a vertical section there-through as seen on line 2—2, Fig. 1. Fig. 3 is a perspective view of a slightly modified form of calk.

In describing my invention, I shall refer to the drawing in which similar reference characters designate corresponding parts

throughout the several views and in which—

1 indicates a horseshoe, the under face of which is provided with the integral toe strip or projection 2 and the integral heel projections 3, said projections being each provided with a central transverse slot 4, which terminates at its lower end in a circular channel or socket 5. These slots and channels 4 and 5 respectively extend the full width of the projections 2 and 3, and the outer side faces of said projections are also provided with transversely extending dove-tail channels 6, the purpose of which will be hereinafter and more particularly described. These projections 2 and 3 with the respective channels and slots therein are, of course, provided for the securing of calks to the shoe and to this end, I provide the calks 7 which, as shown in Figs. 1 and 2, have the effective faces designed flat to form what are known as mud-calks. These calks are of the same length as are the respective projections to which they are applied so that the calk which is applied to the toe projection is of greater length than the remaining calks and each has formed on the top face thereof a central longitudinal rib 8, the outer portion of which is formed circular in cross section as shown at 9. These ribs with the circular portions at the outer ends thereof are designed to readily fit within the slots and sockets 4 and 5 respectively of the heel and toe projections of said shoe and in order to provide for the snug fitting of said calks to the projections and the limiting of the movement thereof, said slots and sockets 4 and 5 of the projections and the longitudinal ribs of the calks are correspondingly tapered toward one end thereof. From this construction it will be seen that calks may only be applied to the projections from one side of the latter and the tapering of the slots in the heel projections is so designed as to dispose the smaller ends of the slots inwardly and adjacent one another, whereby said heel calks may be only applied from the outside. Each of the calks 7 has formed on the side faces thereof the integral vertically extending flanges 10 which flanges are adapted to contact with the faces of the projections 2 and 3 when the calks are applied thereto and each of said flanges has integrally formed on its inner face, the longitudinal dove-tail rib 11. These dove-

tail ribs 11 are adapted to enter and fit snugly within the dove-tail channels 6 on the side faces of the projections 2 and 3 when said calks are applied thereto and it will be appreciated that these latter ribs will aid in the retention of the calks to the projections and the flanges on which said ribs are formed will prevent dirt, dust and the like from entering the various crevices formed between said calks and the projections.

While the calks are adapted to fit snugly in position on the projections 2 and 3 when the ribs of the former enter in the slots and channels of the latter, some positive means for securing said calks must be provided and to this end, the screws 12 are extended transversely through the flanges 10 and ribs 8 of the calks, and through the projections 2 and 3 to be engaged in the threaded sockets 13 of the latter. These screws are applied to the outer faces of the respective projections 2 and 3 and the heads thereof counter-sunk therein so as to form absolutely no obstruction thereon, but are in position to be readily operated, when desired.

As stated above, the calks 7 shown in Figs. 1 and 2 are preferably termed mud calks, but I have also provided for the application to the shoe of sharpened calks which may be termed snow and ice calks. In Fig. 3, therefore, I have shown a calk 14 which is a slight modification from the calks 7 in that the head or effective face is sharpened in the usual manner. In all other respects, however, this calk is identical with the calks 7, above described, and applied in a similar manner to the respective projections of the shoe.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form proportion and in the minor details of construction may be resorted to without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described this invention, what is claimed is:—

1. A device of the class described comprising a shoe proper having heel and toe projections formed thereon, which projections are provided with transverse central slots terminating in circular sockets, said projections being also provided on the outer faces thereof with transverse dove-tail channels, calks provided on their upper faces with central ribs terminating in circular ends and adapted to fit snugly in the slots and sockets of said projections, vertical flanges formed on the side faces of said calks, said flanges being provided on their inner faces with dove-tail ribs adapted to enter the dove-tail channels of said projections, and means adapted to extend through the flanges and central ribs of said calks to secure the latter to the projections of said shoe.

2. In a horse shoe, a shoe proper provided with integral toe and heel projections thereon, which projections are provided with transverse slots terminating in circular sockets, said slots and sockets being tapered toward one end thereof, and said projections being also provided on their side faces with transverse dove-tail channels, calks provided on their top faces with central ribs terminating in circular ends, said ribs being also tapered toward one end thereof and adapted to fit snugly within the slots and sockets of said projections, vertical flanges formed on the side edges of said calks, said flanges being provided on their inner faces with dove-tail ribs adapted to enter the dove-tail channels of said projections, and means adapted to be disposed through the flanges and central ribs of said calks and through said projections of the shoe to removably secure the calks to the latter.

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

GEORGE ROBINS.

Witnesses:

CASPER STAEHULE,
JOHN C. BERGER.

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