H. PAAR.

HORSESHOE.

APPLICATION FILED JUNE 6, 1908.

912,258. Patented Feb. 9, 1909.

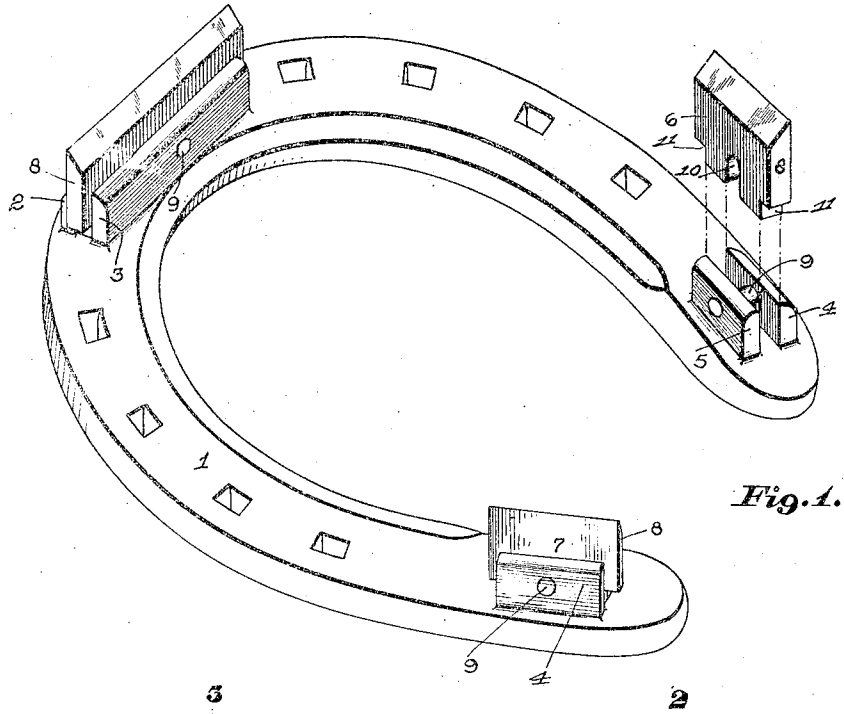


Fig. 1.

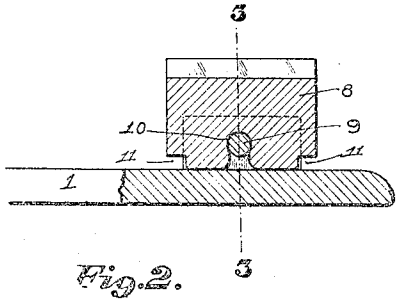


Fig. 2.

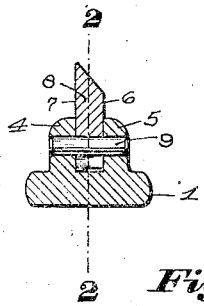


Fig. 3.

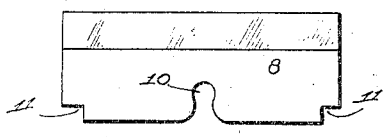


Fig. 4.

Witnesses:

Harry D. Rostetter.

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UNITED STATES PATENT OFFICE.

HENRY PAAR, OF CANTON, OHIO, ASSIGNOR OF ONE-HALF TO CHARLES McGRANAHAN, OF CHICAGO, ILLINOIS.

HORSESHOE.

No. 912,258. Specification of Letters Patent. Patented Feb. 9, 1909.

Application filed June 5, 1908. Serial No. 436,776.

To all whom it may concern:

Be it known that I, HENRY PAAR, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Horseshoe, of which the following is a specification.

My invention relates to improvements in horseshoes provided with removable calks, and the objects of my invention are, first, to provide a horseshoe whereto may be attached calks of various shapes to suit different purposes and conditons; second, to provide a horseshoe wherein the calks which are worn dull may be removed and new calks substituted, and this being accomplished without the aid of the farrier; third, to do away with the frequent removal of shoes from the horses' feet necessary in the case of the ordinary horseshoes, and to thus avoid the consequent injury to the hoofs; fourth, to cheapen the cost of maintenence of horseshoes in use and to accomplish other objects which will be readily apparent to those skilled in the art. I attain these objects by the device illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view from the bottom side of a horseshoe embodying my improvement, one of the removable calks being separated or removed from the calk flanges. Fig. 2 is a longitudinal section through the shoe, retaining pin and calk, said view being taken on a plane indicated by the line 2—2, in Fig. 3. Fig. 3 is a transverse section through the shoe, calk flanges, retaining pin and calk, said view being taken on a plane indicated by the line 3—3, in Fig. 2. Fig. 4 is an elevation of one of the removable calks.

Throughout the several views similar reference numerals indicate similar parts.

The numeral 1 indicates a horseshoe having the usual general contour and provided at the front with the outer and inner calk flanges 2 and 3 respectively, and also provided at the back with the outer and inner calk flanges 4 and 5. Said calk flanges are preferably integral with the main portion of the horseshoe, and arrangement is preferably made for two heel calks and one toe calk longer than the heel calks. The arrangement of the calk flanges and the means of attaching the calks thereto is the same for both heel and toe calks, a detailed description of the construction and arrangement of parts of one of the heel calks will therefore be sufficient.

The calk flanges 4 and 5 are provided with inner plain surfaces parallel with and spaced from each other in such way that the said parallel surfaces will closely engage the sides 6 and 7 of the calk 8. Extending from one calk flange to the other calk flange is the retaining pin 9, the said pin being preferably located about midway between the ends of the calk flanges and away from the surface of the shoe 1. This pin accomplishes two purposes, the one to strengthen and support the calk flanges and tie them together, the said pin being headed down upon the outside of each flange, and the second to retain the calk in position as hereinafter described.

The calk is provided with the rounded opening 10 which communicates with the base of the calk by means of a slot, said slot being slightly narrower than the diameter of the opening as best shown in Fig. 4. The pin 9 is of such diameter that it exactly fits the opening 10. In placing the said calk properly in the calk flanges, the base is arranged between the parallel surfaces of said flanges and the contracted slot communicating with the opening 10 is brought immediately on top of the pin 9. The calk is then given a sharp blow with a hammer or other instrument whereupon the edges of the said contracted slot spring sufficiently to allow them to pass the pin whereby the pin becomes located in the opening 10, and the said pin closely fitting said opening and the calk flanges closely engaging the sides, the said calk is held rigidly in place.

The ends of the calks are notched at the base as shown at 11—11, which notches permit a cold chisel to be inserted into said notches for the purpose of prying the calk out of the calk flanges when it is desired to replace the calks with new ones.

It will be understood that the calks shown in the drawing are provided with sharp treads for use upon icy pavements and the like. Other forms of treads may be provided upon the calks of the same shape as to their bases as those shown in the drawing, and such calks will be interchangeable with those shown.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is—

1. The herein described horseshoe comprising a shoe proper, calk flanges integral with said shoe proper, said calk flanges arranged in pairs, each pair having parallel inner surfaces spaced from each other and a retaining pin extending between said calk flanges, calks provided with rounded openings and slots narrower than the diameter of said openings extending from said rounded openings through the bases of said calks and the said calks arranged between the calk flanges with the retaining pins located in said rounded openings.

2. The herein described horseshoe comprising a shoe proper, calk flanges integral with said shoe proper, said calk flanges arranged in pairs, each pair having parallel inner surfaces spaced from each other and a retaining pin extending between said calk flanges, calks provided with rounded openings and slots narrower than the diameter of said openings extending from said rounded openings through the bases of said calks, the said calks arranged between the calk flanges with the retaining pins located in said rounded openings, and notches in the ends of said calks.

3. In a device of the character described, a shoe proper, calk flanges arranged thereon in pairs and a round retaining pin extending between the two flanges of each pair, calks provided with faces adapted to closely engage the inner surfaces of the calk flanges, said calks also provided with openings of the same diameter as the diameter of the retaining pins and slots extending from said openings through the bases of said calks, the said slots being of less dimension than the diameter of said openings.

4. In a horseshoe of the class described, a shoe proper in combination with calk flanges arranged thereon in pairs and integral therewith, calk retaining pins arranged between the calk flanges of each pair, calks provided with openings and slots narrower than said openings and the said calks arranged between the said calk flanges with the said retaining pins arranged in the said openings of the calks, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

HENRY PAAR.

Witnesses:
WILLIAM H. MILLER,
W. M. SCHILLING.