

1,038,118.

H. GRAW.
HORSESHOE.
APPLICATION FILED MAY 26, 1910.

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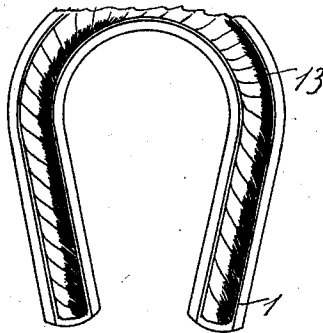


Fig. 1.

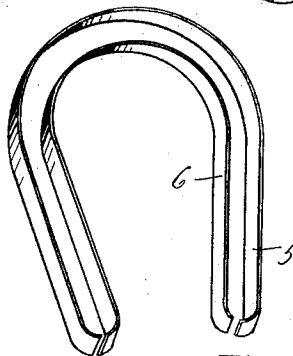


Fig. 2.

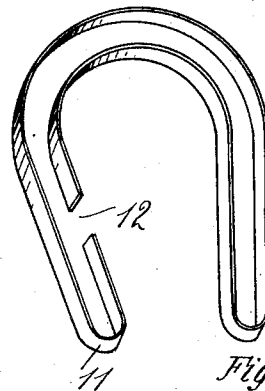


Fig. 3.

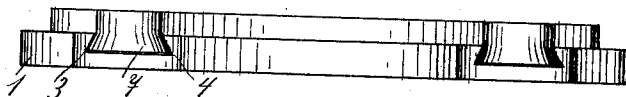


Fig. 4.

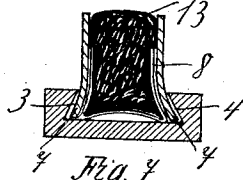


Fig. 7.

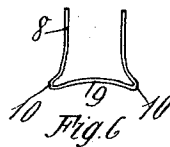


Fig. 6.

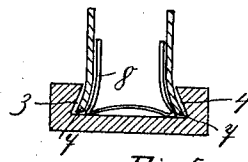


Fig. 5.

Witnesses:
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UNITED STATES PATENT OFFICE.

HEINRICH GRAW, OF CHARLOTTENBURG, GERMANY.

HORSESHOE.

1,038,118.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HEINRICH GRAW, a subject of the Emperor of Germany, residing at Charlottenburg, in the Kingdom of Prussia, German Empire, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in horseshoes of that class in which the tread is made separable from the body of the shoe, so as to admit of its being replaced when worn.

Certain constructional forms of my invention are illustrated in the accompanying drawing.

Figure 1 is an underside view of the complete horseshoe. Fig. 2 is a perspective view of the removable tread. Fig. 3 is a like view of a modified form of tread. Fig. 4 is a rear elevation of the horseshoe, drawn to a larger scale, Fig. 5 is a cross section, drawn to a still larger scale, and showing a fragment of the shoe with tread and fastening means. Fig. 6 shows a fastening device separately. Fig. 7 is a similar view to Fig. 5, after the insertion of packing material.

The body 1 of the shoe, which may be of any suitable material, is furnished with a dovetail-groove, presenting two undercut or receding walls 3, 4. This shoe is provided at suitable places with holes for nails, in the usual manner, but not being destined to take up wear, it can be made considerably lighter than an ordinary shoe.

The tread consists of two strips 5, 6 of steel, iron, bronze, or other hard or strong material. These strips, standing on edge, fit into the groove in the shoe, and their lower edge is bent to take snugly into the contiguous undercut part.

In place of two strips 5, 6 being used, the tread may be made of a single bent strip 11, as shown in Fig. 3. The gap 12 is for the purpose of insuring elasticity when fitting the strip into the groove in the shoe.

The removable tread is held in place by suitable means, such for instance as clips of the kind depicted in Fig. 6. The clip there shown consists of a substantially U-shaped

strip 8, whose corners 10 are adapted to fit into the recesses at each side of the groove in the shoe. The base of the clip 8 is buckled at 9, to afford a certain amount of resilience, such as is requisite in fitting it into the shoe-groove. Another advantage of the buckling is that if subjected to a few light blows of the hammer, the clip 8 will spread out and sit the more tightly in place. The buckled base will also yield under the pressure of the horse and cause a tighter fit of the parts.

It must be understood that I do not desire to restrict myself to this particular form of fastening, as any suitable means may be employed, such, for example, as a device acting on the wedge principle.

The vacant space between the walls of the tread is packed with a suitable material such for instance as tarred cord 13, tow, or the like.

Having thus described my invention I declare that what I claim is:—

1. A horseshoe, comprising a body presenting a groove, with undercut sides, on the under side; a tread of lamellar material, presenting two walls, which fits the shoe-groove; and substantially U-shaped clips located between the strip-walls and holding the same against the recessed groove-walls; substantially as described.

2. A horseshoe, comprising a body presenting a groove, with undercut sides, on the under side; a tread of lamellar material, presenting two walls, which fits the shoe-groove; and substantially U-shaped clips, having a buckled base, located between the strip-walls and holding the same against the recessed groove-walls; substantially as described.

3. A horseshoe, comprising a body grooved on the under side; a tread of lamellar material presenting two walls and which fits the shoe-groove; means located between the tread-walls and holding the tread in place; and packing material filling out the vacant space between the tread-walls; substantially as described.

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

HEINRICH GRAW.

Witnesses:

LEONHARD REICHAU,
HUGH GRAMATZKI.