

No. 731,616.

PATENTED JUNE 23, 1903.

J. REGAN.
HORSESHOE.

APPLICATION FILED FEB. 6, 1903.

NO MODEL.

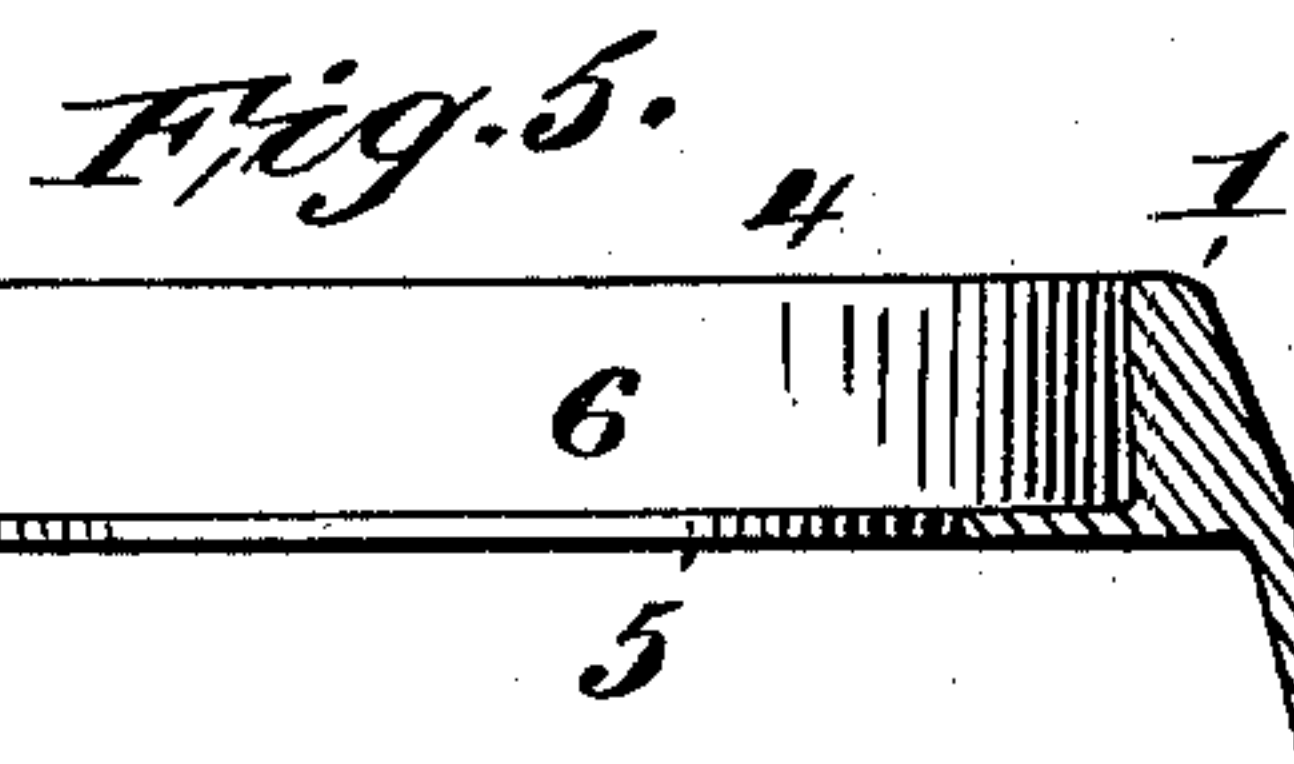
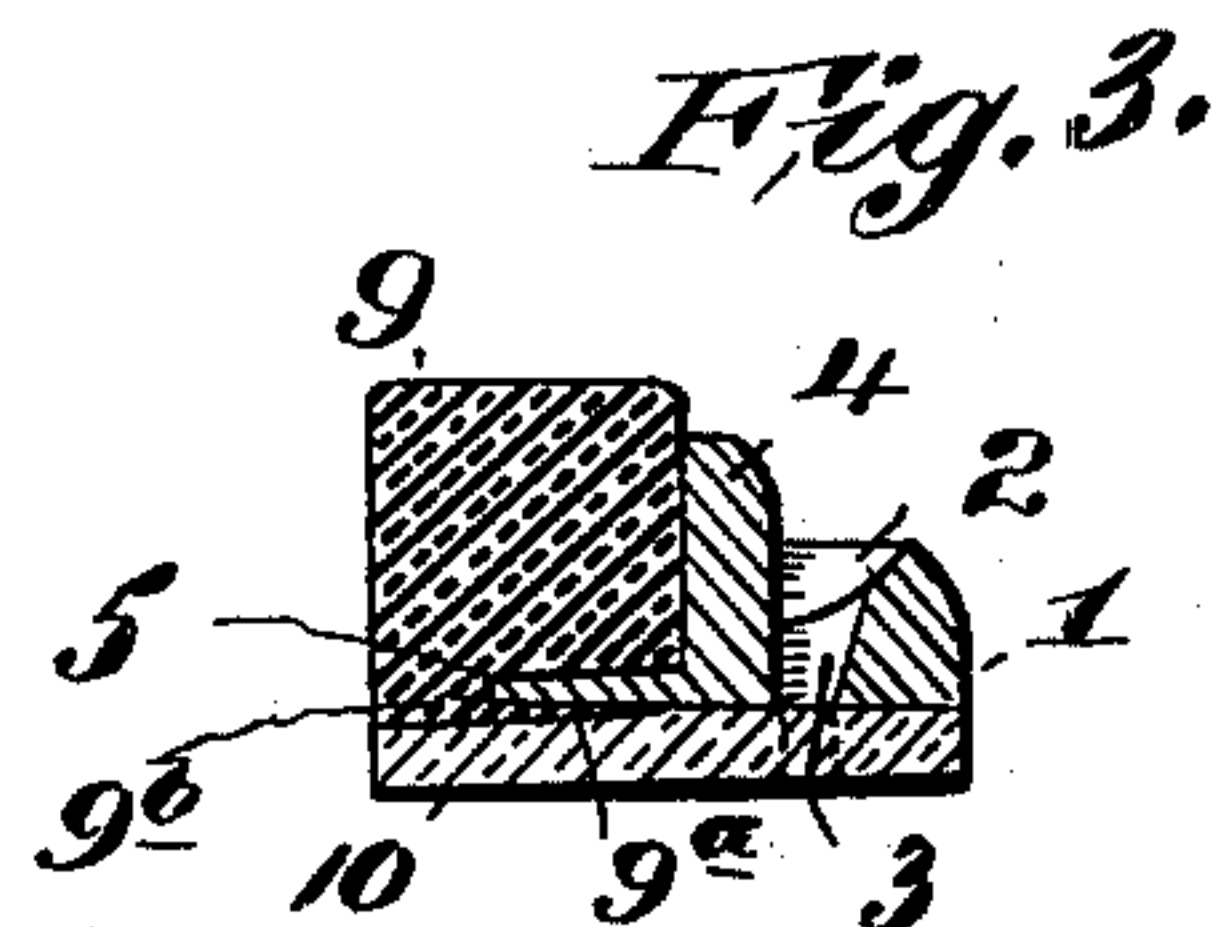
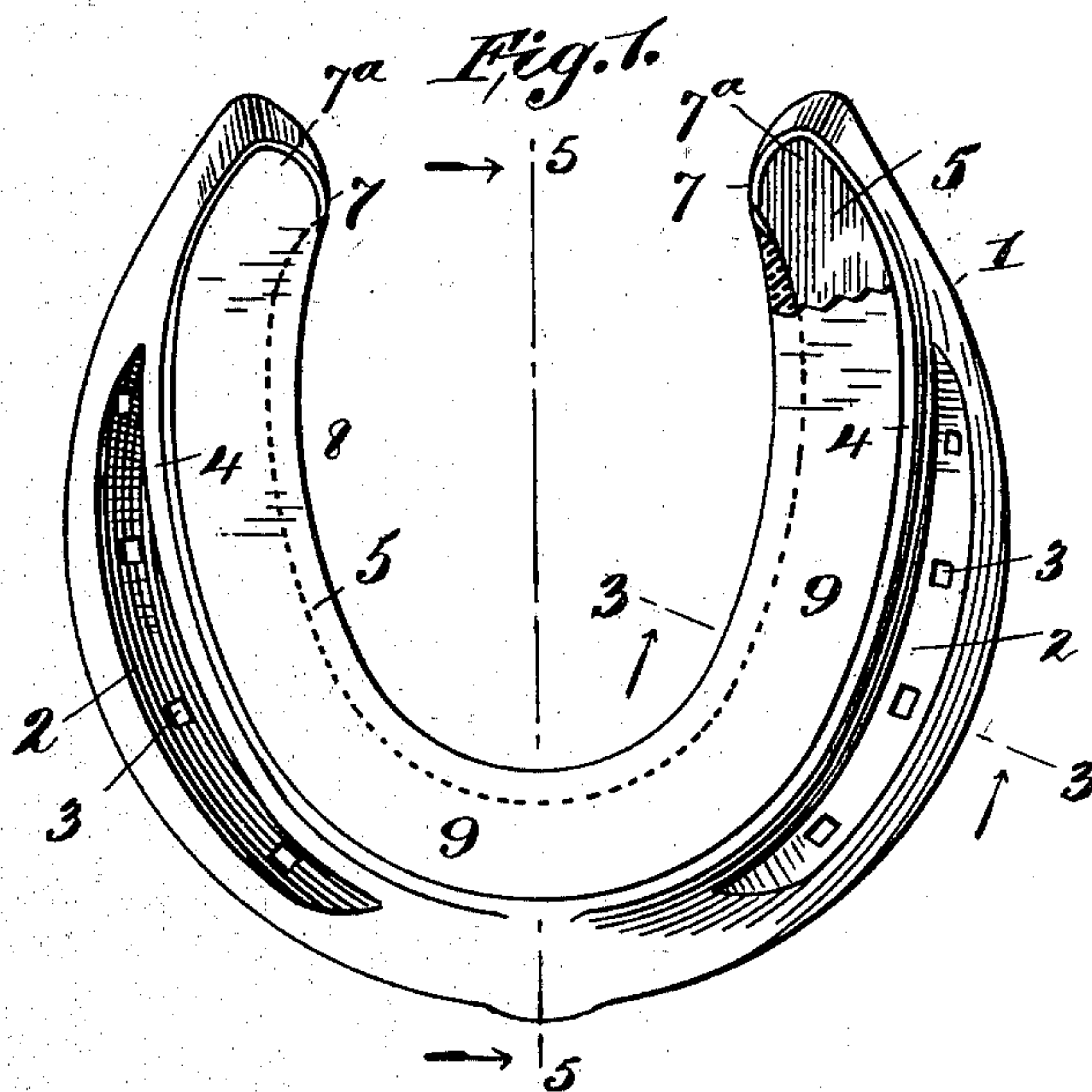
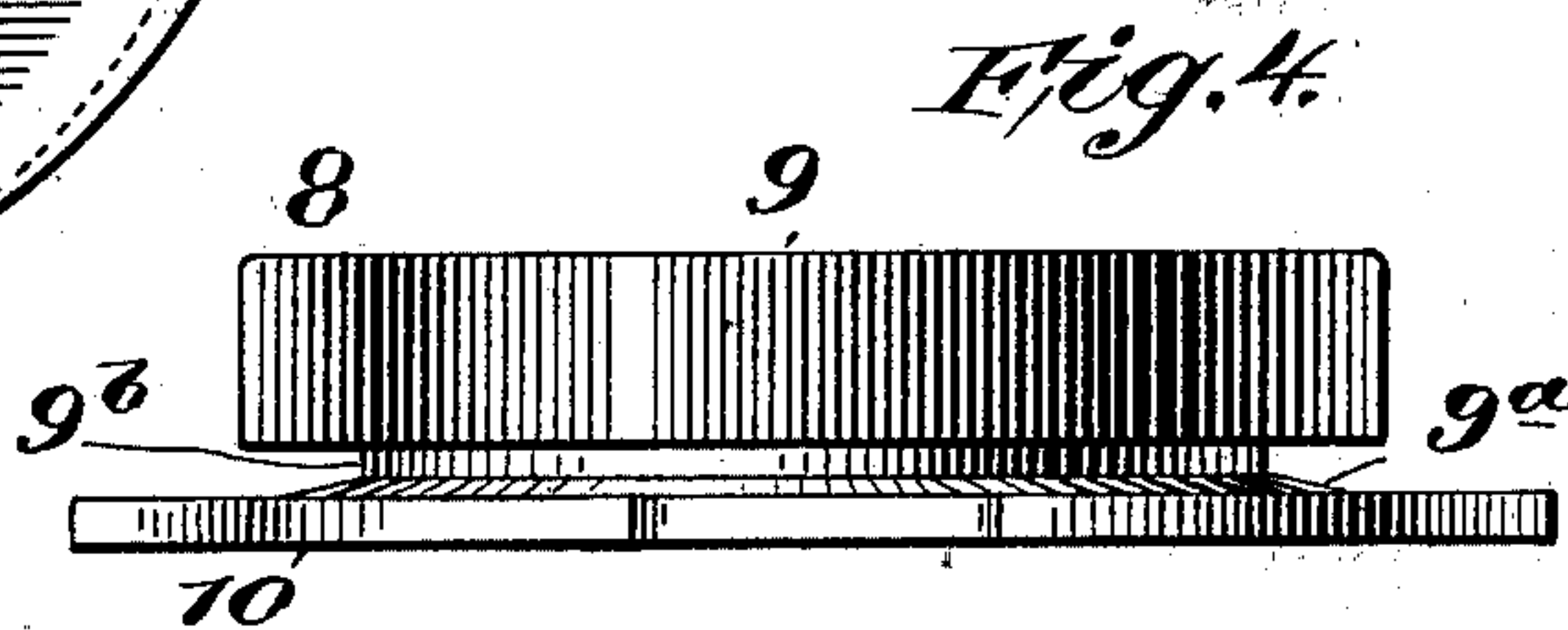
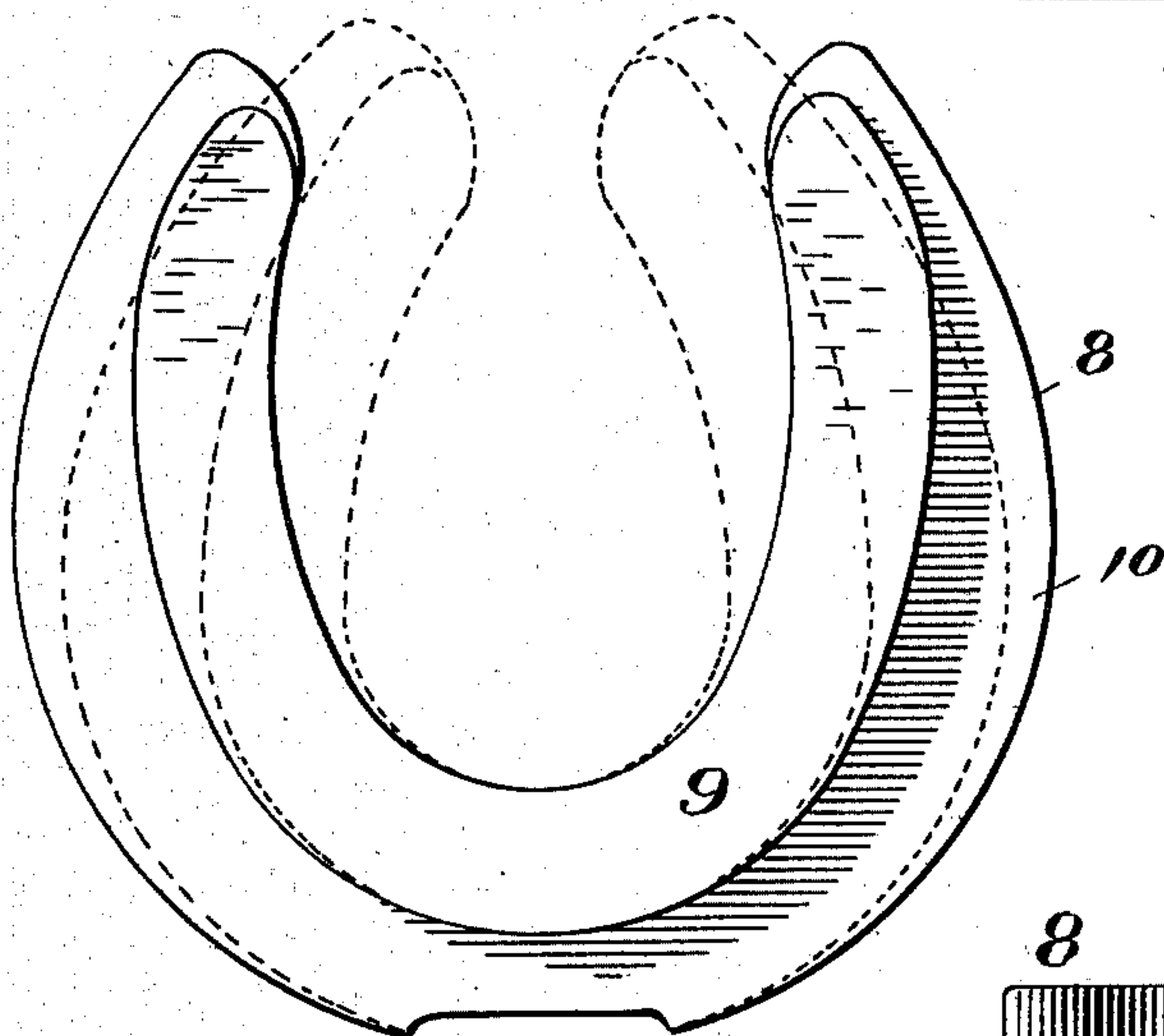


Fig. 2.



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UNITED STATES PATENT OFFICE.

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HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 731,616, dated June 23, 1903.

Application filed February 6, 1903. Serial No. 142,133. (No model.)

To all whom it may concern:

Be it known that I, JOHN REGAN, a citizen of the United States, and a resident of New York city, borough of Brooklyn, State of New York, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification.

My invention relates to improvements in the class of horseshoes that are provided with cushions or pads, and has for its object to permit the shoe to be fitted to a horse's foot either when hot or cold without interference by the pad or cushion; and the invention comprises the novel details of improvement that will be more fully hereinafter set forth and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a face view of a horseshoe embodying my invention, part being broken away, looking at the tread side thereof. Fig. 2 is a similar view of the pad or cushion removed from the shoe. Fig. 3 is a section on the line 3 3 in Fig. 1 looking in the direction of the arrows. Fig. 4 is an edge view of Fig. 2 looking from below; and Fig. 5 is a section on the line 5 5 in Fig. 2 looking in the direction of the arrows, the pad or cushion being removed.

Similar numerals of reference indicate corresponding parts in the several views.

In the drawings the numeral 1 indicates the body of a horseshoe, made of suitable metal and of desired outline, and the same is shown provided on its tread side with recesses 2 and apertures 3 for the passage of nails to secure the same to a foot in well-known manner. At 4 the shoe is shown provided with a rib on its tread side substantially following the outline of the shoe, and at 5 the shoe is provided with a flange extending inwardly, providing between parts 4 and 5 a recess 6, facing the tread side of the shoe, extending around within the loop of the shoe, the recess 6 thus being open on the inner side. At the heel of the shoe the recess 6 is closed by metal walls 7, forming pockets at 7^a. (See Fig. 1.)

The cushion or pad for the shoe is indicated generally at 8 and has a rubber or analogous flexible pad 9, suitably shaped to fit

within the recess 6 and to abut against the flanges 4 and 5, and preferably made to extend beyond the tread-surface of the flange 4, as indicated in Fig. 3. The pad 9 is secured to a retainer 10, of leather or other suitable material, substantially of the outline of the horseshoe and which extends outwardly beyond the pad 9, so as to lie against the upper surface of the shoe, whereby to be located between the shoe and the hoof of the horse when used. (See Fig. 3.) The pad 9 and retainer 10 may be secured together by suitable cement or in other desirable manner, and in order to make a strong connection between the pad and the retainer I have shown the pad as provided with a flange 9^a, resting against the outer or upper surface of flange 5 of the horseshoe and having a shoulder at 9^b to receive the edge of flange 5, (see Figs. 3 and 4,) the pad thus being provided with a recess along its inner face that receives the flange 5. The nails to hold the shoe upon the hoof pass from the holes 3 through the retainer 10, as indicated in dotted lines in Fig. 3, and thus the retainer 10 is bound to the hoof and held in place by the shoe and the nails, and the retainer 10 firmly holds the pad 9 in the recess 6 of the shoe, and strain upon the pad tending to detach the same from the shoe also comes upon the integral flange 9^a and the shoulder 9^b.

By making the pad 9 of rubber or analogous material and the retainer 10 of leather or the like a cushion is provided having well-known advantages, and relatively soft material is interposed between the hoof and the shoe. Furthermore, the pad 9 and its retainer 10 are flexible to a sufficient extent to enable the same to be readily applied to the shoe. To apply the cushion to the shoe, the rear ends of the former can be pressed toward each other, as indicated in dotted lines in Fig. 2, and the cushion can then be inserted in the space or loop between the sides of the shoe, so that the retainer 10 will come against the upper surface of the shoe, and the pad 9 can slide edgewise into the recess 6, and when adjusted to position the cushion will expand outwardly, and the rear ends of the pad 9 can be pushed into the pockets at 7^a, as indicated in Fig. 1, the rear end walls 7 keeping the

pad 9 from moving backwardly, the nails holding the cushion firmly in position.

An advantage of my improvements is that as the cushion is readily detachable from the shoe the latter can be fitted to the hoof either hot or cold in well-known manner, because the pad can be removed, and the metal of the shoe can be shaped and fitted to a hoof while hot, as in ordinary horseshoes, and when the shoe is fitted and cold the pad can be applied to the shoe, and then the shoe, with the attached pad, can be nailed to the hoof, or the pad can be removed, the shoe shaped to fit while cold, the pad then applied, and the complete article next adjusted to the hoof.

The particular shape of the shoe and cushion shown and described and the details thereof may be varied without departing from the spirit of my invention.

Having now described my invention, what I claim is—

1. In a horseshoe, the combination of a body having a channel at the inner portion of the loop thereof, with a pad adapted to fit in said channel and provided with a retainer extending over the body, substantially as described.

2. In a horseshoe, the combination of a body having a channel facing the inner portion of the loop thereof, with a pad of flexible material having its ends free adapted to fit in said channel and provided with a retainer of flexible material to extend over the shoe and having its ends free, the pad and retainer being arranged to have the free ends thereof moved toward each other to permit the pad to be inserted within the loop of the shoe to expand outwardly into said channel, whereby the retainer can extend over the shoe, substantially as described.

3. In a horseshoe, the combination of a body having a channel extending along the inner portion of the loop thereof, the outer ends of said channel being closed, with a pad of flexible material adapted to be sprung into said channel, said pad having a retainer arranged to extend over the shoe and adapted to be located between the shoe and the hoof

when applied to the latter, substantially as described.

4. In a horseshoe, the combination of a body having a flange extending along the inner portion of the loop, providing a channel opening toward the tread side of the shoe, with a pad of flexible material arranged to fit in said channel and to bear against said flange, and a retainer arranged to overlie said flange and the upper surface of the shoe, the flange being located between the pad and the retainer, substantially as described.

5. In a horseshoe, the combination of a body having a flange extending along the inner portion of the loop thereof, and a rib projecting toward the tread providing a channel opening on the tread side and facing the inner portion of the loop of the body, with a pad of flexible material provided with an outwardly-extending retainer arranged to overlie the upper surface of the shoe, a space being formed between the pad and the retainer to receive said flange, substantially as described.

6. In a horseshoe, the combination of a body having a channel on the tread side facing the loop thereof, with a pad of flexible material having a flange and a shoulder providing a space to receive the flange of the body, and a retainer secured to said shoulder and flange of the pad and extending outwardly beyond the same and arranged to overlie the upper surface of the body, substantially as described.

7. In a horseshoe, the combination of a body having a channel opening toward the inner portion of the loop thereof, with a rubber pad arranged to fit in said channel and a leather retainer secured to said pad, extending outwardly beyond the same, and arranged to overlie the upper surface of the body, said body having recesses and apertures located outside of said channel to receive nails, substantially as described.

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Witnesses:

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