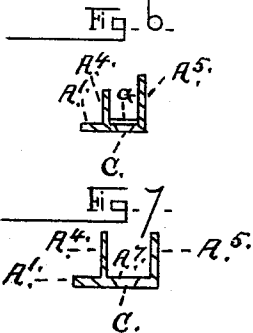
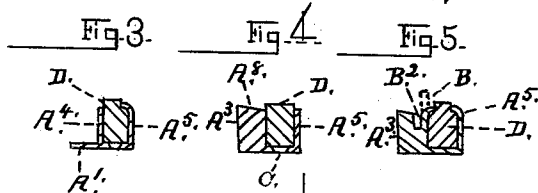
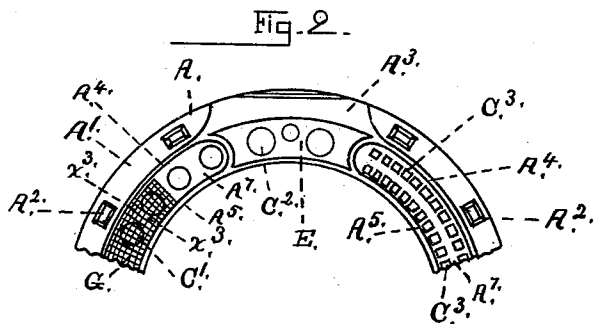
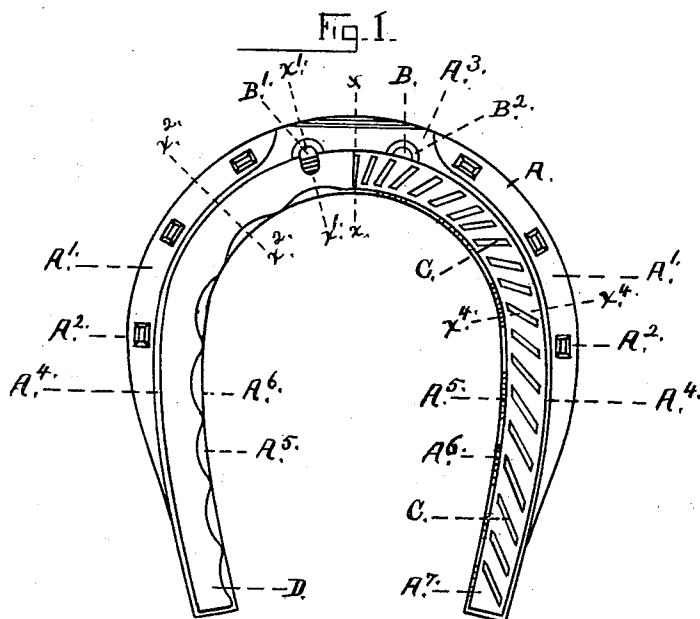


(No Model.)

F. W. HAHN.
SOFT TREAD RACING SHOE.

No. 585,202.

Patented June 29, 1897.



Witnesses:
E. J. Thomas,
L. Heusel
Wm. H. Bates

Inventor:
Frederick W. Hahn,
By E. J. Thomas
Att'y.

UNITED STATES PATENT OFFICE.

FREDERICK W. HAHN, OF NEW YORK, N. Y.

SOFT-TREAD RACING-SHOE.

SPECIFICATION forming part of Letters Patent No. 585,202, dated June 29, 1897.

Application filed December 30, 1896. Serial No. 617,436. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK W. HAHN, a citizen of the United States, and a resident of the city, county, and State of New York, have invented a new and useful Improvement in Soft-Tread Race-Horseshoes, of which the following is a specification.

The object of this invention is to produce a light soft-tread horseshoe.

10 The invention consists in forming a fretwork base in a channel for supporting an elastic packing in a horseshoe-frame and a wire screen to prevent the packing from coming in contact with the hoof.

15 Figure 1 represents the shoe having part of the elastic packing removed. Fig. 2 represents two forms of fretwork in the channel. Fig. 3 represents the cross-section of Fig. 1 on line $x^2 x^2$. Fig. 4 represents the cross-section of Fig. 1 on line $x x$. Fig. 5 represents Fig. 1 on line $x' x'$. Fig. 6 represents Fig. 2 on line $x^3 x^3$, and Fig. 7 represents Fig. 1 on line $x^4 x^4$.

25 A in the several figures represents a horseshoe-frame cast from malleable iron or struck up, having nail-flanges A^1 , nail-holes A^2 , and calk A^3 .

30 A^4 are right-angle flanges forming the exterior wall of the channel A^7 , as shown in Figs. 1, 2, and 7, and these flanges merge into the large calk A^3 at the front of the shoe.

35 A^5 is a right-angle flange forming the interior wall of the channel A^7 , as shown in Figs. 1 and 7. This flange is provided with elevations A^6 , which are bent over onto the packing D to hold it in place, as shown in Figs. 1, 3, and 5. That the packing D may not get loose in the groove A^7 the calk A^3 is provided with fingers B, which extend below the calk, as shown by dotted lines B, Fig. 5, and is separated from the calk above its tread-surface by the groove B^2 , as shown in Figs. 1 and 5. By this plan the finger B will not wear off at its base when bent over, as shown at B', 45 Fig. 1.

50 The shoe in Fig. 2 shows two channels A^7 formed on the sides of the shoes, leaving a space back of the calk A^3 . By this plan the shoe is made lighter, as only a thin web E unites the calk A^3 and the flange A^5 , and in order that more strength may be given to the

web E and front part of the shoe the vertical flange A^5 is united to and extended across the rear of the web E.

The calk A^3 , Fig. 4, has its tread-surface A^8 tapered back that a sharp edge may be formed on its front edge.

The narrow slots C through the base of the channel A^7 , Figs. 1, 4, 6, and 7, are for the purpose of making the shoe lighter. They are formed with tapering walls, as shown at C in cross-sections Figs. 4, 6, and 7 which prevents the packing D from coming in contact with the horse's hoofs and causing the animal to become lame. These slots C are cast diagonally across the channel, which prevents the shoe from breaking as it is spread or contracted in fitting the shoes to the horse's feet.

70 The holes C' and C^3 , Fig. 2, are modifications of the slots C, the holes C^3 being made very fine, while C' are large, but are provided with a wire-netting G, Figs. 2 and 6, which prevents the elastic packing from reaching the hoof.

75 That the shoe may be still further reduced in weight I form recesses C^2 in the web E. (See Fig. 2.)

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

1. A horseshoe-frame having slots C, flanges A^4 and A^5 forming a channel A^7 , in combination with the wire screen G located in the base of the channel A^7 , and the elastic packing D, as and for the purpose described.

2. A horseshoe-frame having slots C or holes C' , a channel A^7 formed by the flanges A^5 and A^4 , the said flange A^5 having elevations A^6 , in combination with the wire screen G located in the base of the channel A^7 , and the elastic packing D, as and for the purpose described.

95 In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 23d day of December, 1896.

FREDERICK W. HAHN.

Witnesses:

E. T. THOMAS,
HARRY S. WARSOWSKI.