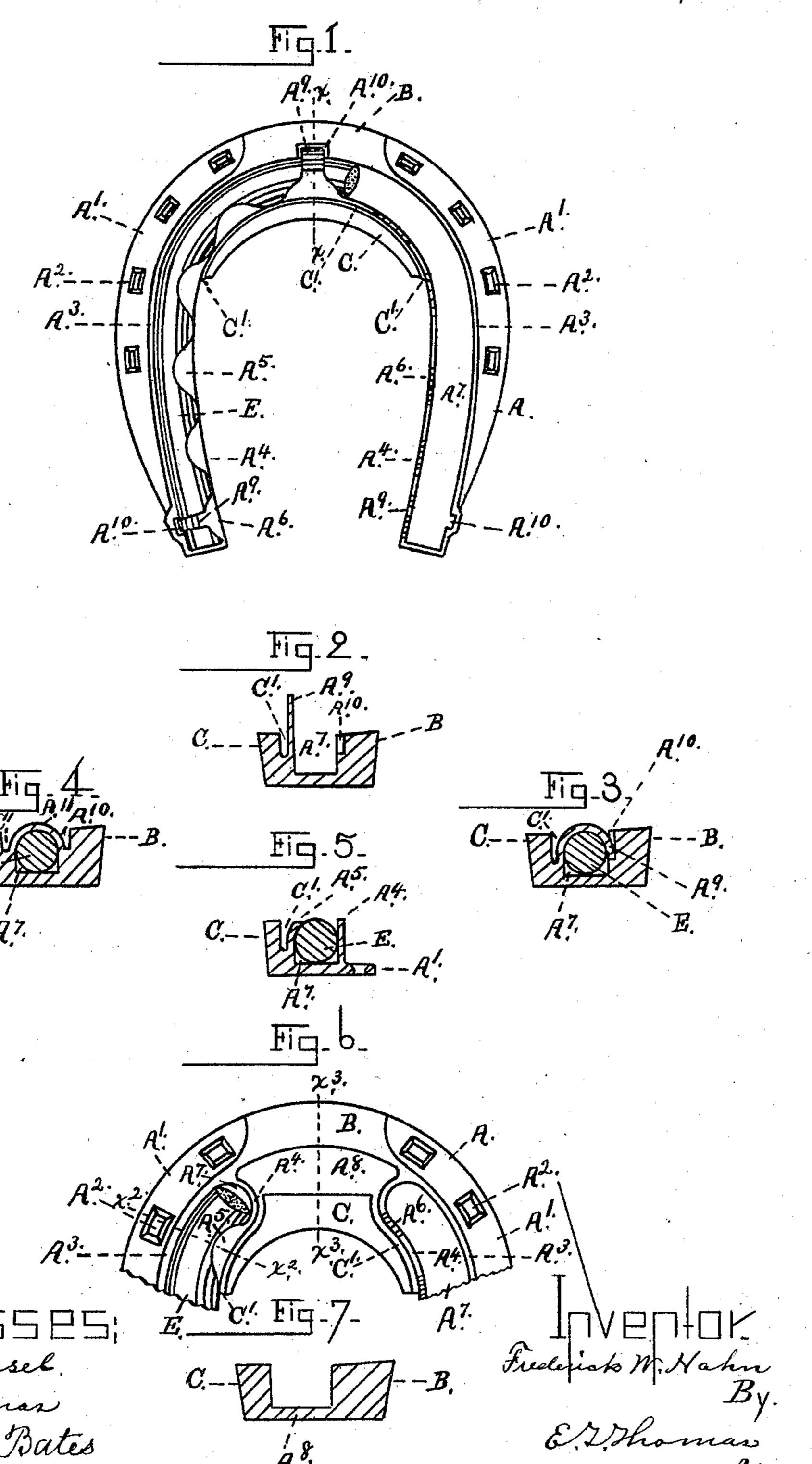
F. W. HAHN. ELASTIC TREAD HORSESHOE.

No. 584,504.

Patented June 15, 1897.



United States Patent Office.

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

ELASTIC-TREAD HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 584,504, dated June 15, 1897.

Application filed December 21, 1896. Serial No. 616,451. (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 Elastic-Tread Horseshoes, of which the following is a specification.

The object of this invention is to enlarge the tread-wearing surface of a horseshoe and

10 preserve the toe-calk.

The invention consists in an inner calk opposite the toe-calk and laps or staples to hold

in the elastic packing.

Figure 1 represents the under side of the shoe with part of the elastic material in place. Fig. 2 is a cross-section of Fig. 1 on line x x before the lap or staple is bent or the packing E is in place. Fig. 3 is a cross-section of Fig. 1 on line X X. Fig. 4 is a modification of the finger A. Fig. 5 is a cross-section of Fig. 6 on line X^2X^2 . Fig. 6 is a modification of the shoe, and Fig. 7 represents a cross-section of Fig. 6 on line X^3X^3 .

A in the several figures represents a cast or struck-up horseshoe-frame having nail-flanges A' and nail-holes A². A⁷ in the various figures is a channel for receiving the packing E, formed by the two right-angled flanges A³ and A⁴. The inner flange A⁴ is provided with lugs A⁶ on its lower edge, which are bent over onto the elastic packing E, as shown at A⁵, Figs. 1, 5, and 6, the flanges A³, forming the outer wall of the channel, being provided with recesses A¹⁰ and merge into the broad calk B at the toe of the shoe, as shown in Fig. 1, the calk B being also provided with a recess A¹⁰.

That the packing E may not stub out or its free ends become loose the center and heel 40 lugs A⁶, Figs. 1 and 2, are provided with fingers A⁹, which are bent or turned over until their free ends enter the recesses A¹⁰, as shown

in Figs. 1 and 3.

In the use of malleable-iron shoes it has been found that the front part wears out much faster than the heel. To obviate this, I have formed an inner tread-step C, as shown in the several figures, which in the ordinary stepping of the horse saves the calk B and keeps the horse's feet level, thereby avoiding straining the muscles of the legs.

That the lugs A⁶ opposite the tread C may | pose described.

be free from the said tread a groove C' is formed between the lugs and tread, as shown in Figs. 1, 2, 3, and 6. By this plan the base 55 of the lugs are not readily worn off.

In the modification shown in Fig. 6 there are two channels A^7 , one upon each side of the shoe, leaving a central space for the calk

B, tread-step C, and a web A⁸, Fig. 7, unit- 60 ing the said calk, tread, and channel-walls. By this plan the shoe is made more durable.

In Fig. 4 a loop A¹¹ is cast integral with the shoe in place of the finger A⁹, Fig. 3. The recesses C' and A¹⁰ prevent the loop from be- 65 ing worn off, as the base of the loop is below the lower surface of the tread C and calk B.

It is apparent that I may force a staple into the recesses C' and A^{10} by dispensing with the loop A^{11} and accomplish the same pur- 70 pose.

If found desirable, I may V or corrugate the tread C.

Having thus fully described my invention, what I claim as new, and desire to secure by 75 Letters Patent of the United States, is—

1. A horseshoe-frame having flanges A^3 and A^4 , a calk supported by and uniting the flanges A^3 , the said calk having a recess A^{10} for receiving the finger A^9 , in combination 80 with the elastic packing E, as and for the purpose described.

2. A horseshoe-frame having flange A⁴ provided with finger A⁹ and lugs A⁶ constructed to be bent over and retain the packing E, the 85 flanges A⁴, and a calk supported by and uniting the flanges A³, the said calk having a recess A¹⁰, in combination with the elastic packing E, as and for the purpose described.

3. A horseshoe-frame having tread C, 90 flanges A³ and A⁴, and a calk supported by and uniting the flanges A³, in combination with the elastic packing E, as and for the purpose described.

4. A horseshoe-frame having tread C, 95 groove C', flanges A³ and A⁴, and a calk supported by and uniting the flanges A³, in combination with the packing E, as and for the purpose described.

5. A horseshoe-frame having tread C, recesses C', flanges A³ and A⁴, and a calk provided with recess A¹⁰ and supported by the flanges A³, and packing E, as and for the purpose described

6. A horseshoe-frame having flanges A³ provided with recesses A¹⁰, flange A⁴ having finger A⁹, and a calk B supported by and uniting the flanges A³, in combination with the elastic packing E, as and for the purpose described.

In testimony that I claim the foregoing as J

my invention I have signed my name, in presence of two witnesses, this 15th day of December, 1896.

FREDERICK W. HAHN.

Witnesses:

E. T. THOMAS, HARRY S. WARSAWSKI.