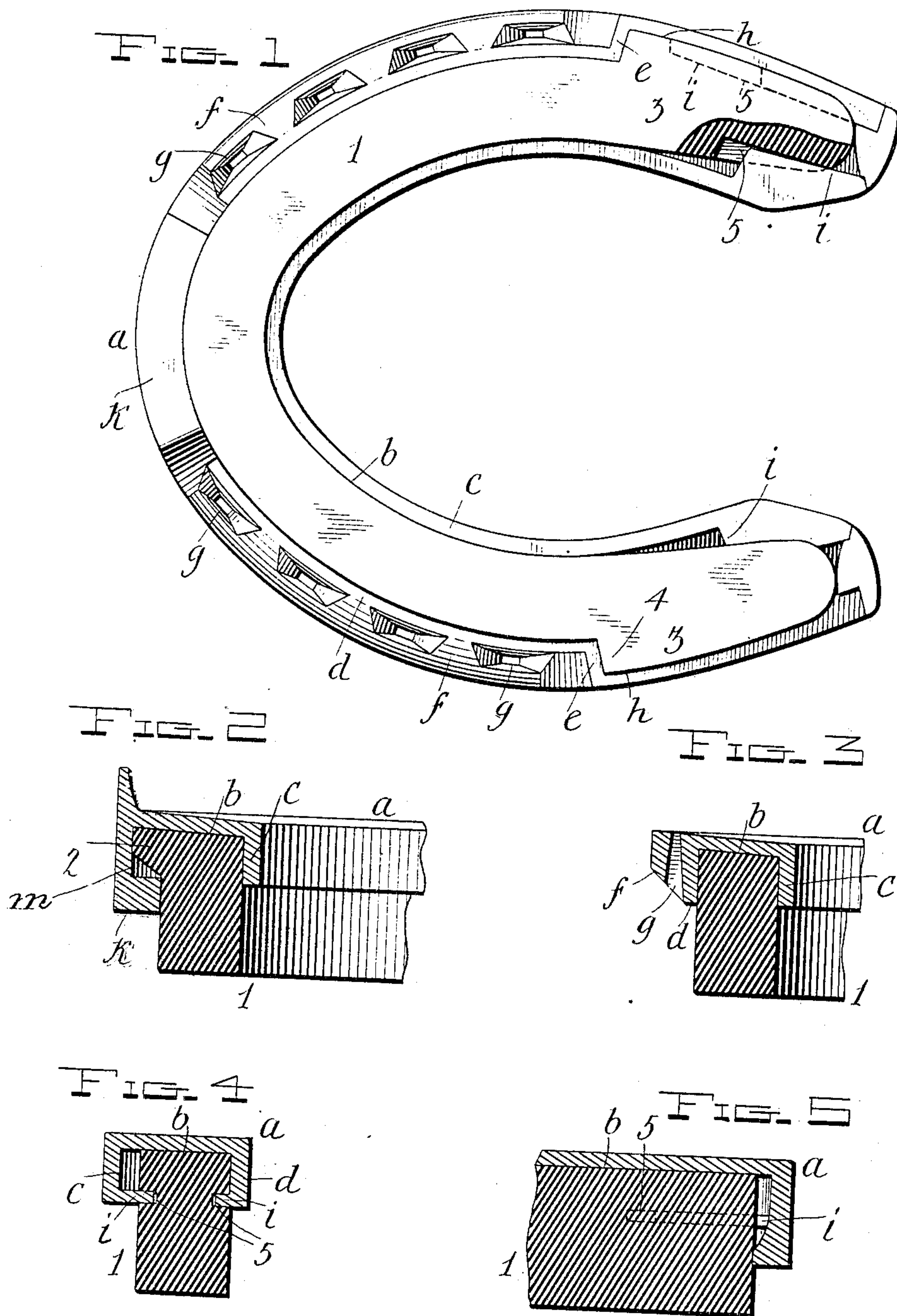


No. 819,016.

PATENTED APR. 24, 1906.

A. W. JONES.
ELASTIC TREAD HORSESHOE.
APPLICATION FILED SEPT. 26, 1905.



Witnesses
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UNITED STATES PATENT OFFICE.

ALFRED W. JONES, OF ST. LOUIS, MISSOURI.

ELASTIC-TREAD HORSESHOE.

No. 819,016.

Specification of Letters Patent.

Patented April 24, 1906.

Application filed September 26, 1905. Serial No. 280,127.

To all whom it may concern:

Be it known that I, ALFRED W. JONES, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented new and useful Improvements in Elastic-Tread Horseshoes, of which the following is a specification.

My invention is an improved elastic-tread horseshoe; and it consists in a horseshoe having a channel in its lower side, widened at the toe and heel, provided with inwardly-extending flanges at the toe and heel, and having the intermediate portions between the toe and heel contracted in width to form insets on the outer sides of said channel and provide spaces at the sides of the shoe on the outer sides of said contracted intermediate portions for the nail-holes, so that the nail-holes are clear of and on the outer sides of the intermediate portions of the channel, in combination with an elastic cushion to fit in the said channel having its heel portion widened to fit in the widened portions of the heel portions of the channel and provided at its toe portion with a forwardly-projecting flange to lock under the widened toe portion of said channel, the heel portions of the shoe and of the cushion having coengaging flanges and grooves to lock the widened heel portions of the cushion in the widened heel portions of the channel in the shoe, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 is partly an inverted plan view and partly a horizontal sectional view of an elastic-tread horseshoe embodying my improvements. Fig. 2 is a sectional view of the toe portion of the shoe. Fig. 3 is a similar view of the intermediate portion of the shoe, and Figs. 4 and 5 are sectional views, one longitudinal and one transverse, of one of the heel portions of the shoe.

In the embodiment of my invention I provide the metallic horseshoe-body *a* with a channel *b* on its under side, which extends entirely around the shoe from its heel portions to its toe portion and forms an inner flange *c* and an outer flange *d*. The outer flange *d* has its intermediate portions between the heels and the toes inset to form shoulders *e* to contract the width of the channel between the heel portions and the toe portion of the shoe and provide spaces *f* on the outer sides of the shoe for the nail-holes *g*, so that the nail-holes are in the outer side and entirely clear of the channel. The said spaces *f* are

here shown as beveled to strengthen the outer flange and to improve the appearance of the shoe. The widened heel portions *h* of the channel formed in rear of the inset shoulders *e* are provided at their rear ends with inwardly-projecting flanges *i*. The toe portion of the channel under the toe-calk *k* is widened, as at *m*, so that the toe-calk forms an overhanging flange over the front side of the channel at the toe thereof.

In connection with the horseshoe-body I provide a cushion 1, which is preferably made of rubber and which is adapted to fit in the channel of the horseshoe-body. At the front or toe end of the said cushion is a flange 2, which is adapted to enter the recess *m* thereunder, the overhanging toe-calk coacting with the flange formed on the cushion to lock the toe of the cushion in place in the toe portion of the channel. The heel portions of the cushion are widened on their outer sides, as at 3, to fit in the widened heel portions *h* of the channel and to form shoulders 4, which by engagement with the shoulders *e* of the horseshoe-body prevent the cushion from creeping or moving longitudinally in the channel. In the sides of the heel portions in the cushion are grooves 5 for the reception of the flanges *i* at the heel portions of the horseshoe-body. Said grooves and said flanges coact to lock the heel portions of the cushion securely to the heel portions of the horseshoe-body, while admitting of the ready removal of the cushion from the horseshoe-body when the cushion becomes worn and it becomes desirable or necessary to replace it with a new one.

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

1. A horseshoe having a channel in its lower side widened at the toe and heel, provided with inwardly-extending flanges at the toe and heel, and having the intermediate portions between the toe and heel contracted to form insets on the outer sides of said channel, in combination with a detachable elastic cushion shaped to fit the irregularities of said channel, substantially as described.

2. A horseshoe having a channel in its lower side, widened at the toe and heel, provided with inwardly-extending flanges at the toe and heel, and having the intermediate portions between the toe and heel contracted to form insets on the outer sides of said channel and provide spaces in the shoe on the outer

sides of said contracted intermediate portions for the nail-holes so that the nail-holes are clear and on the outer sides of the intermediate portions of the channel, in combination
5 with a detachable elastic cushion shaped to fit the irregularities of said channel, substantially as described.

3. A horseshoe having a channel in its lower side, widened at the toe and heel, provided
10 with inwardly-extending flanges at the toe and heel, and having the intermediate portions between the toe and heel contracted to form insets on the outer sides of said channel and provide spaces in the shoe on the outer
15 sides of said contracted intermediate portions for the nail-holes so that the nail-holes are clear and on the outer sides of the intermediate portions of the channel, in combination

with a detachable elastic cushion to fit in said channel and having widened portions to fit in
20 the widened toe and heel portions of the channel, said cushion having a flange at its toe portion to engage the recess at the toe portion of the shoe and having grooves in its heel
25 portion to receive the flanges at the heel portions of the channel and to detachably lock the toe and heel portions of the cushion in the toe and heel portions of the channel, substantially as described.

In testimony whereof I have signed my
30 name to this specification in the presence of two subscribing witnesses.

A. W. JONES.

Witnesses:

S. A. TERRY,
BENJ. G. COWI