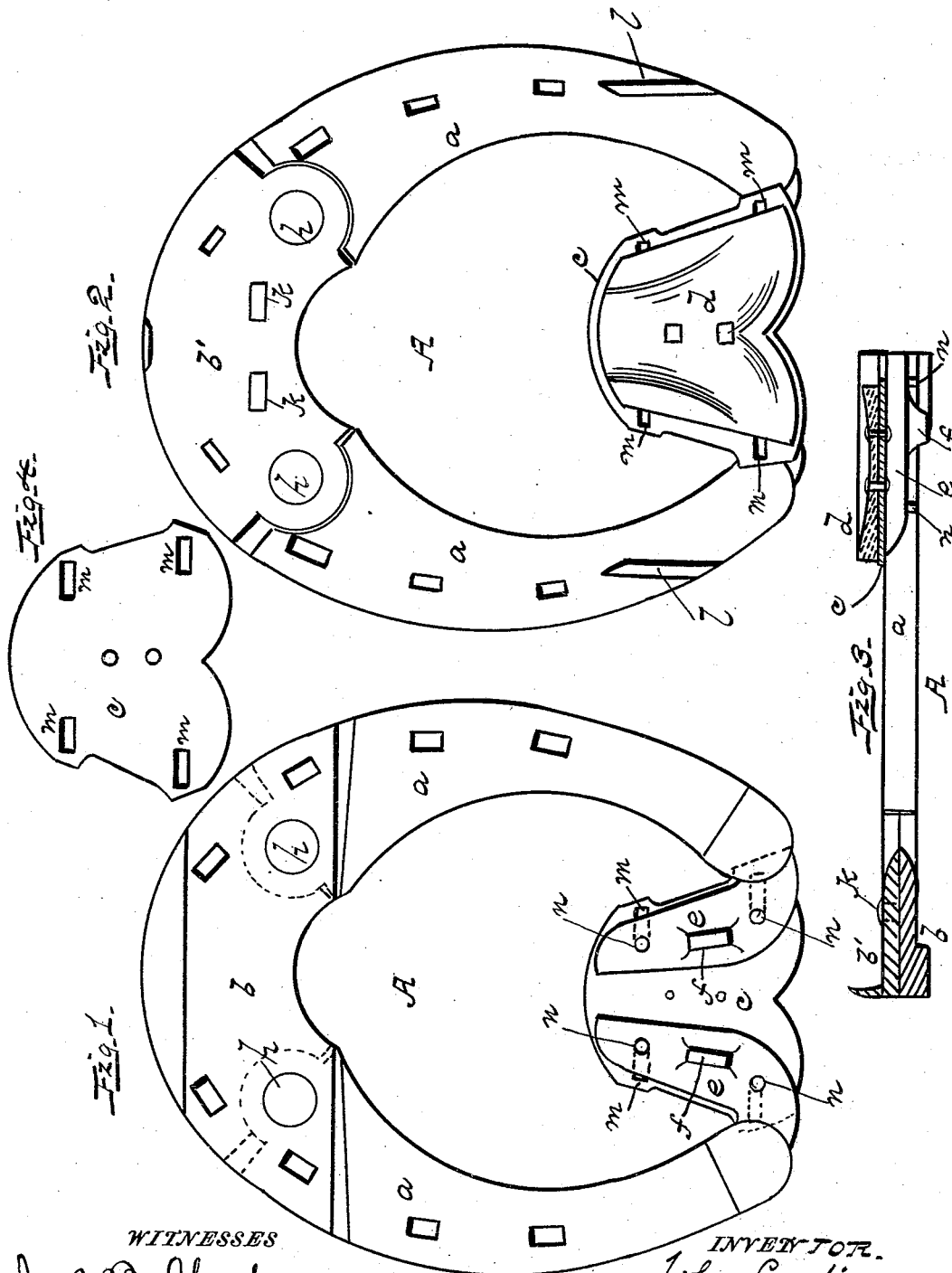


(No Model.)

J. CURTIN.
HORSESHOE.

No. 494,250.

Patented Mar. 28, 1893.



WITNESSES

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JOHN CURTIN, OF ELK FALLS, KANSAS.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 494,250, dated March 28, 1893.

Application filed November 12, 1892. Serial No. 451,779. (No model.)

To all whom it may concern:

Be it known that I, JOHN CURTIN, a citizen of the United States, residing at Elk Falls, in the county of Elk and State of Kansas, have
5 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
10 others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in horse shoes and it consists in the novel construction, combination and arrangement of
15 parts of which it is composed whereby bearing or support to the entire weight bearing surface of the foot of the animal is provided at the same time the shoe is designed to accommodate itself to different sized hoofs, the
20 same allowing of expansion and contraction thus permitting the hoof to expand as the same grows or enlarges all as will be herein-after more fully explained and particularly pointed out in the appended claims.

The annexed drawings, to which reference
25 is made, fully illustrates my invention, in which

Figure 1, represents a bottom view of my improved shoe. Fig. 2, is a plan view of the same. Fig. 3, is a vertical longitudinal sectional
30 view of the same, and Fig. 4 is a plan view of the "frog plate" detached from the shoe.

Referring by letter to the accompanying drawings A, designates the horse shoe, consisting of the side bars *a, a*, toe pieces *b, b'*
35 and plate *c* having a frog *d* attached to it. The side bars *a, a*, are each constructed with an inwardly projecting arm or piece *e, e*, that are formed integral therewith and having
40 bearing lugs *f, f*, on the underside which when said lugs are on the ground the same are on a level with the heels of the shoe. The side bars are further provided with upwardly and
45 downwardly projecting lugs *h, h*, which form pivots for the toe plates *b, b'*, and when headed both above and below serve to hinge the side bars to said plates; the plates *b, b'*, being firmly secured to one another by the lugs *k*,
k, which are secured to the lower plate and

pass through slots in the upper plate and are
50 then clinched or headed. The side bars are further provided with projections *l, l*, on their upper face and near the heel thereof, which, when the shoe is applied to the hoof serve to prevent the shoe from shifting laterally.

c, represents the frog plate having the slots
55 *m, m, m, m*, to receive screws *n, n, n, n*, which are screwed into the inwardly projecting arms or frog bars *e, e*, and to which plate is secured the artificial frog *d* composed, preferably, of
60 rubber.

Thus it will be seen that by my construction of a horse shoe, the same permits the
hoof to expand with the natural growth of the hoof, the front or pivotal portion of the
65 side bars moving sufficiently on the toe plates and the heel portion thereof, expanding laterally; the screws working in the slots in the frog plate, while the latter remains stationary and about the center of the frog of an
70 animal's hoof. This artificial frog gives bearing for the foot and gives it a natural and full expansion, and relieves the feet from jars and concussion in traveling on hard surfaces,
75 and is used more particularly on the feet where the natural frog has been cut away or wasted away from unsoundness of the animal's foot. The artificial frog being placed
80 in the cavity of the foot has a bearing similar to that which nature provides. If desirable the lugs or heels on the inwardly turned frog bars can be dispensed with, thus allowing the flat bars to touch the ground.

A shoe as herein-described is inexpensive,
85 durable, and readily applied to a hoof—the operator simply nailing it on as he would an ordinary shoe.

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

1. The combination with the shoe having the inwardly extended bars provided with the screws, of the frog plate provided with the slots adapted to engage said screws and having the cushion secured to it, substantially as
95 described.

2. The horse shoe herein described, consisting of the side bars and upper and lower toe

plates, said bars being pivoted between the
plates; the latter secured to one another as
described, the bars having the lugs on the
upper face near the heel, and inwardly pro-
5 jecting bars having the screws; the frog plate
provided with the slots, and the cushion, all
substantially as described.

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

JOHN CURTIN.

Witnesses:

D. B. FAUCHER,
H. R. KASSON.