

No. 639,201.

Patented Dec. 12, 1899.

E. W. STAMM.
ELASTIC TREAD HORSESHOE.

(Application filed Feb. 13, 1899.)

(No Model.)

Fig. I.

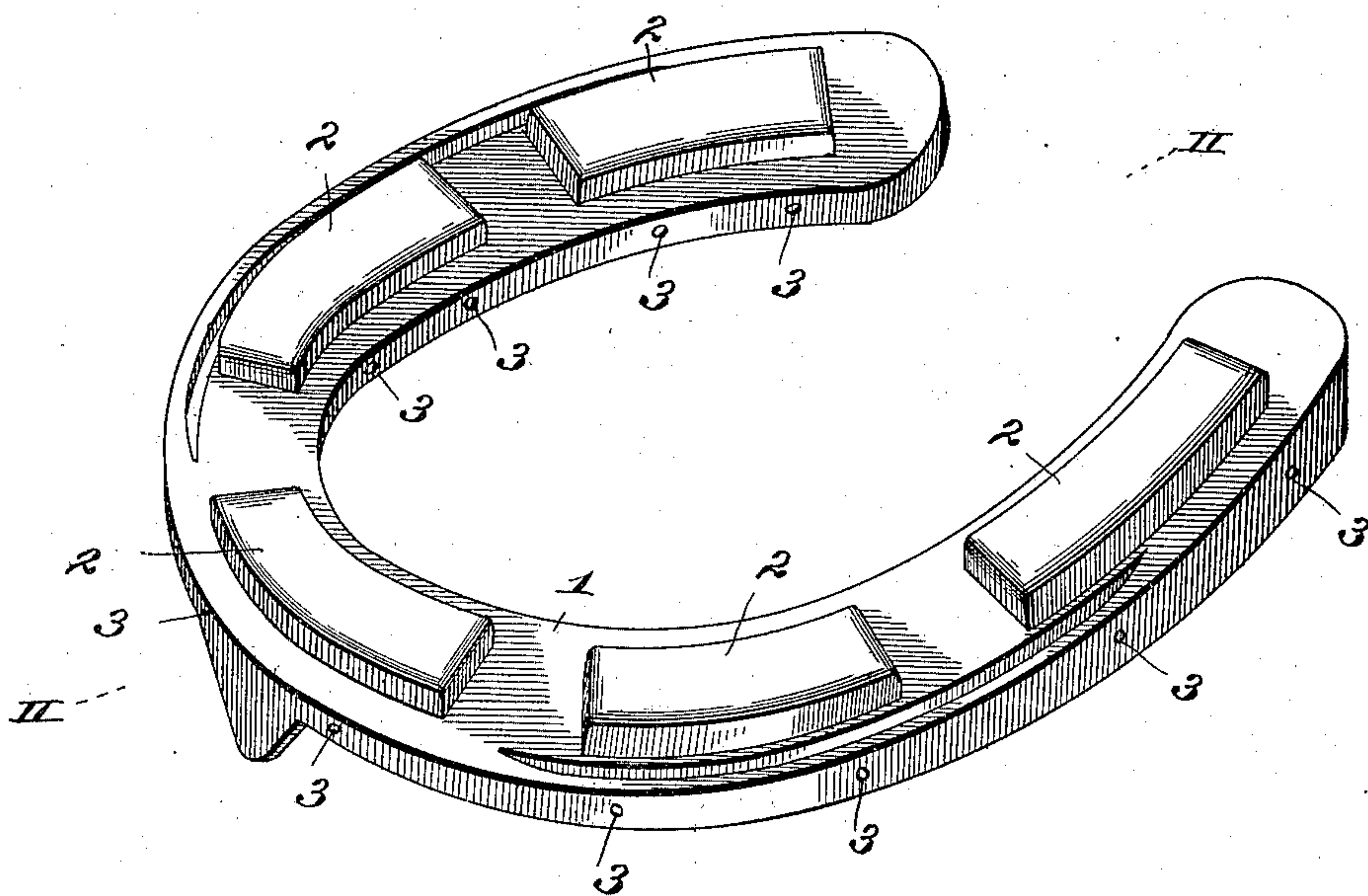


Fig. II.

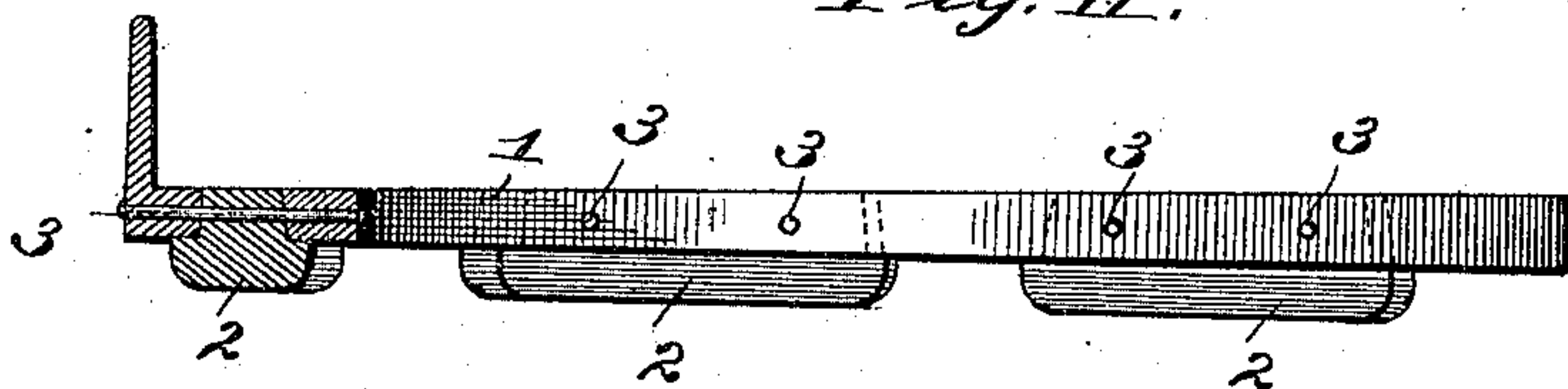
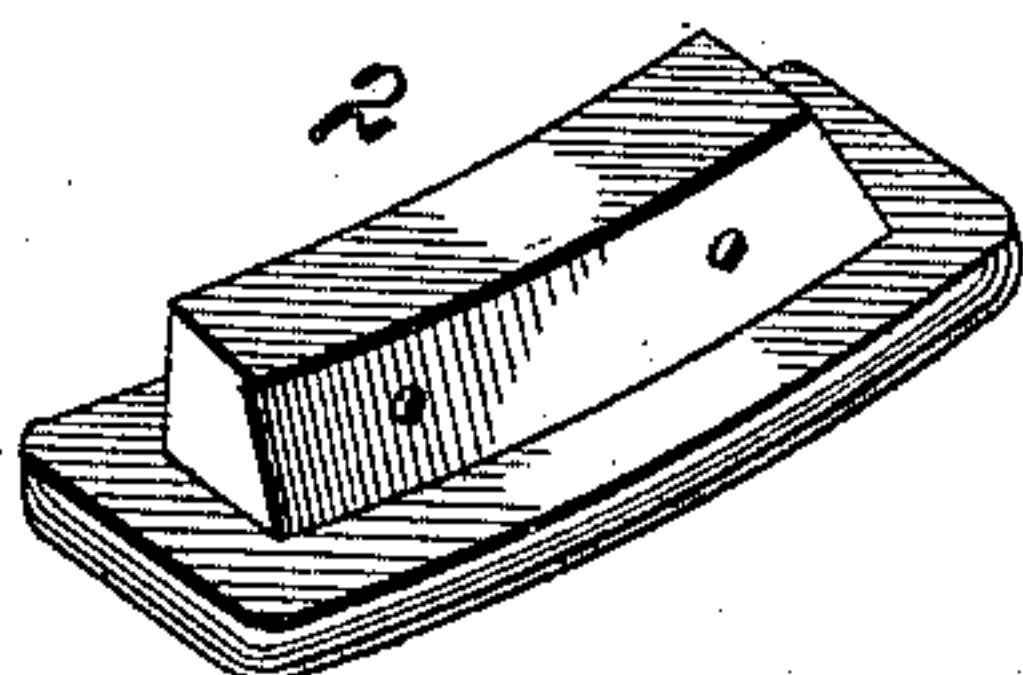


Fig. III.



WITNESSES—

J. A. Bauberschmidt.
A. H. Buschman

INVENTOR—

E. W. Stamm
By *Carroll C. Carr*
Attorneys

UNITED STATES PATENT OFFICE.

ERNST W. STAMM, OF ST. LOUIS, MISSOURI.

ELASTIC-TREAD HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 639,201, dated December 12, 1899.

Application filed February 13, 1899. Serial No. 705,383. (No model.)

To all whom it may concern:

Be it known that I, ERNST W. STAMM, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented a new and useful Elastic Horseshoe, of which the following is a specification.

My invention relates to horseshoes, and has for its principal object to provide an elastic horseshoe of light, durable, and economical construction and to provide for the renewal of worn parts without removal of the shoe from the hoof.

It consists in a horseshoe provided with perforations fitted with removable elastic plugs projecting from the lower side to constitute calks. It also consists in making said elastic calks with shoulders to bear against the under side of the shoe. It also consists in the parts and in the arrangements of parts hereinafter described and claimed.

In the accompanying drawings, which form part of this specification and wherein like symbols refer to like parts wherever they occur, Figure I is a perspective view of my horseshoe. Fig. II is a section thereof on the line II II of Fig. I, and Fig. III is a perspective view of a plug.

The body of my shoe consists of a metal plate or frame 1 of the usual horseshoe shape and adapted to be fastened to a horse's hoof. This frame 1 has a series of elongated slots or perforations flaring from the upper to the lower surface of the frame. Extending edgewise through the frame opposite each slot is one or more holes of a size to receive a fastening pin or screw 3, as hereinafter described.

In each of the elongated slots of the frame is a tapering or pyramidal plug 2, of rubber, wood, or other suitable elastic material, of a proper size to fit said slot. Each plug has an enlarged head which projects on all sides of the slot, and the shoulders thereof bear against the under surface of the metal frame. The plugs are each provided with holes arranged in alinement with holes through the edges of the frame, whereby they are adapted to be held in place by means of fastening pins or screws 3, inserted through said edge holes—that is, the pin-holes are opposite or in alinement with the slots.

The operation of my device is as follows: The metal frame is fastened to the hoof like an ordinary horseshoe, the plugs being secured in the metal frame either before or after the frame is fastened to the hoof. When one or

more of the plugs becomes worn, it may be replaced by merely drawing out the fastening pin or pins, removing the old plug, and inserting and pinning a new plug in its place. The elasticity of the plugs cushions and relieves the shock on the animal's legs and also prevents slipping. By reason of the heads of the plugs overlapping the parts of the frame adjacent thereto the pressure against said plugs is transmitted in part to such frame, whereby the pressure is distributed to all parts of the hoof. The tapering form of slot contributes to the like distribution of pressure. Thus the enlargement of the head not only secures the advantages of a larger wearing-surface and a distribution of the pressure on all parts of the hoof, but also by reason of the smallness of the slots admits of the use of a comparatively light frame.

By extending the slots entirely through the metal the thickness of rubber available for taking up the shock is increased without requiring increase of the strength of the metal frame and without requiring too great projection of the plugs from the under surface.

What I claim is—

1. A horseshoe comprising a metal frame having elongated slots extending entirely therethrough and elastic plugs fitted in said slots respectively and independently removable therefrom, substantially as described.

2. A horseshoe consisting of a metal frame having a series of pyramidal slots therein tapering from the under to the upper side and a pyramidal elastic plug fitted in each slot, said plug having an enlarged projecting head whose shoulders bear against the under side of said frame, substantially as described.

3. A horseshoe consisting of a metal frame having a series of pyramidal slots therein tapering from the under to the upper side and a pyramidal elastic plug fitted in each slot, said plug having an enlarged head projecting therefrom whose shoulders bear against the under surface of the frame, and said frame having pin-holes extending edgewise there-through in alinement with said slots, and pins removably fastened in said holes and extending through said plugs, substantially as described.

E. W. STAMM.

In presence of—

JAMES A. CARR,

WILLIAM P. CARR.