

No. 707,594.

Patented Aug. 26, 1902.

C. A. JUDSEN.
HORSESHOE.

(Application filed Feb. 17, 1902.)

(No Model.)

Fig. 1

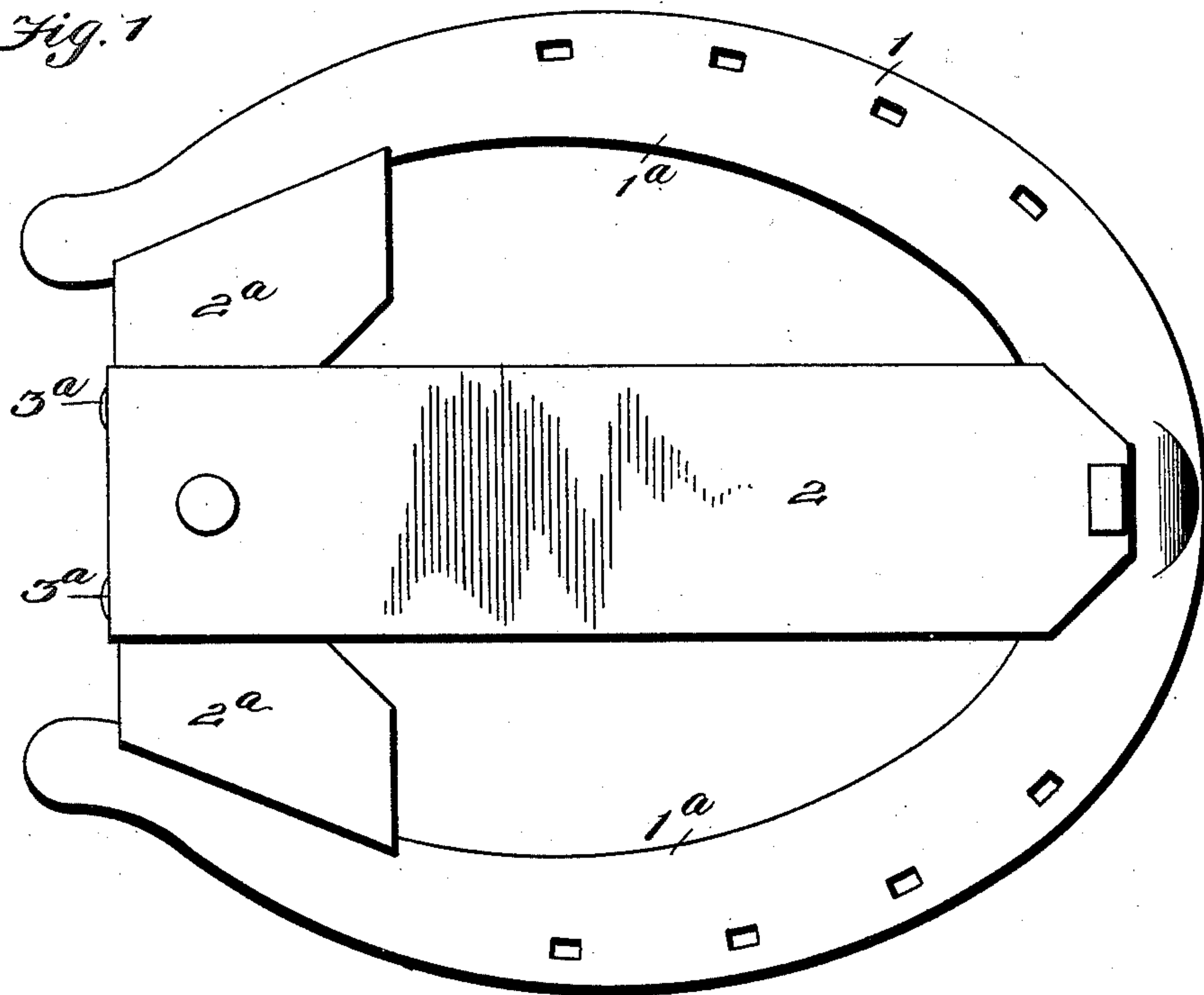


Fig. 2.

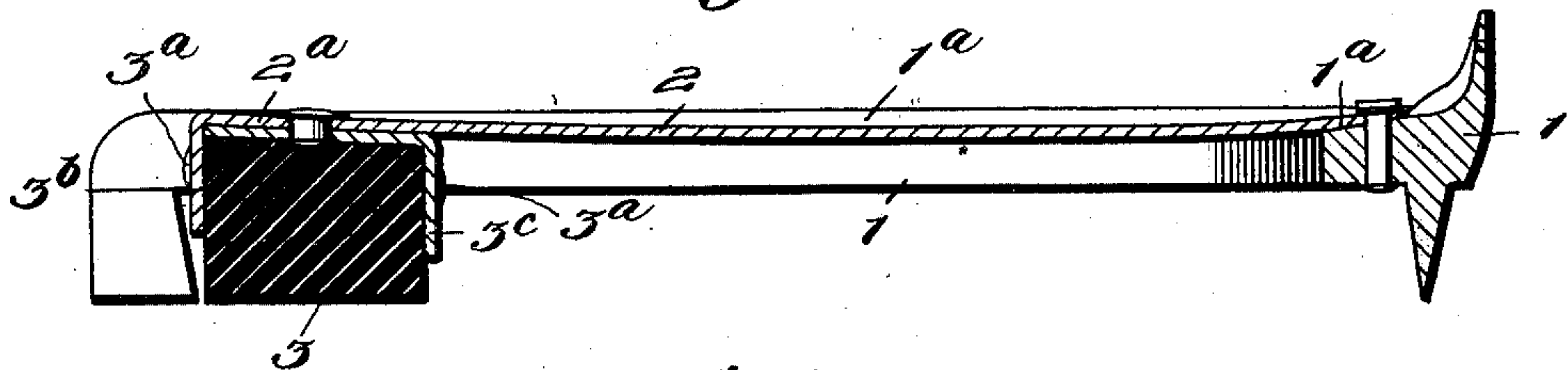
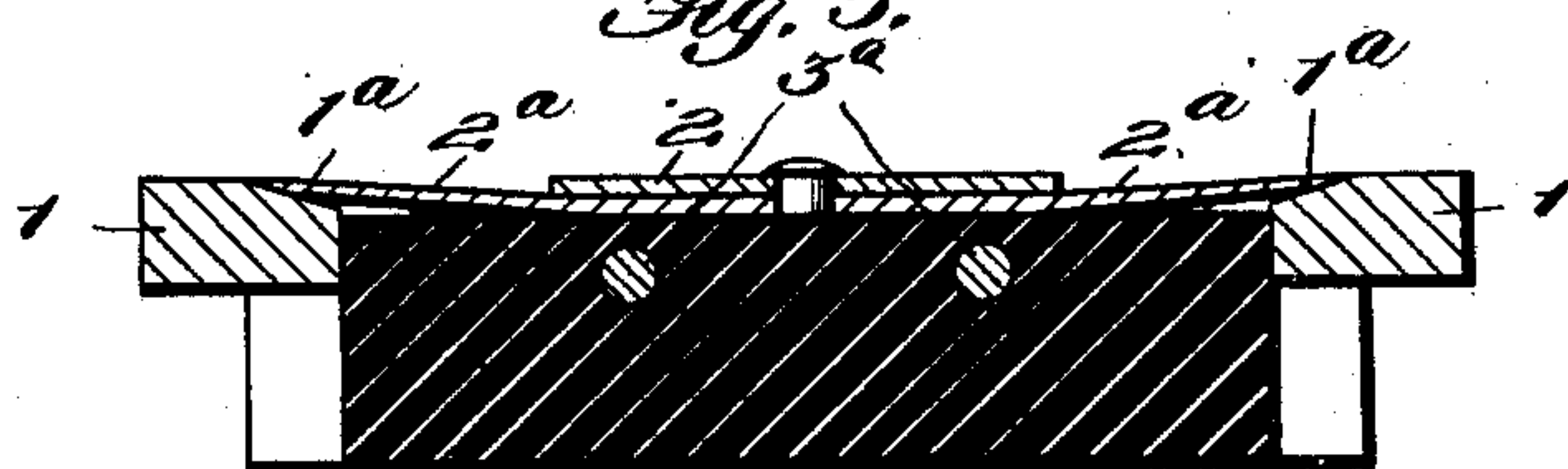


Fig. 3.



Witnesses

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HORSESHOE.

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Application filed February 17, 1902. Serial No. 94,483. (No model.)

To all whom it may concern:

Be it known that I, CARL A. JUDSEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have 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 others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in horseshoes.

It has for its object more especially to protect the frog of the horse's foot as against injury from the piercing or entering the same of a nail or the like or being bruised or cut by a stone, &c; also, to cushion the shoe and guard against concussion and slipping upon the surface.

It consists of a preferably light steel or metal plate or strip fixed to the shoe at the toe end, being unattached thereto at its other end, said steel or metal plate or strip having attached to its free or unattached end a transverse member with its ends freely resting or bearing laterally upon the shoe, the whole being arranged or sunk below the foot attaching or engaging surface of the shoe to take the same out of contact with the horse's foot. Said transverse member has applied to its under side a rubber or elastic block or cushion, preferably held or secured between a downwardly-bent portion of said steel strip or plate and a corresponding portion of said transverse member, respectively, preferably riveted to said cushion or block of elastic material.

In the accompanying drawings, Figure 1 is a plan view. Fig. 2 is a central longitudinal section; and Fig. 3 is a transverse section thereof, taken on a line passing through the transverse member above noted.

In carrying out my invention I take a horseshoe 1, of the ordinary or approved construction in general outline, and preferably bevel the same downwardly along its inner upper edges, as at 1^a, the purpose of which will be presently apparent. To said shoe at the toe end is attached or riveted one end of a steel plate, strip, or part 2, the secured or riveted end of said plate or part being bent

downwardly to conform to and resting upon the inner upper beveled surface or edge of the shoe, thus providing for depressing said part below the foot-attaching surface of the shoe. Said part 2, whose rear end almost reaches clear back to the corresponding end of the shoe, but which is not attached thereto, bridges, therefore, the entire longitudinal area of the space encompassed by the shoe directly under the frog of the horse's foot. Thus protection is afforded for that part of the horse's foot as against the piercing of the same by a nail, &c., or its being bruised or cut by a stone, &c. Said member or part 2 has secured or riveted thereto at its rear free end upon the under side a transverse member or piece 2^a, itself being depressed centrally and opposite the portion of the member or part 2 crossing it, with its free ends reaching upwardly and resting or bearing upon the opposite beveled edges or surfaces of the shoe. Said member or part 2, it will be observed, is sufficiently stiff or inflexible to prevent the involuntary upward displacement of its rear free end with the member 2^a. Upon the underside of the transverse member 2^a is arranged an elastic block or cushion 3, serving in the capacity of a supplemental calk to aid in preventing the horse's foot slipping upon a smooth or slippery surface whether the calk proper be effective or not. Said supplemental calk or rubber block is secured or held to the member 2^a preferably by rivets or fastenings 3^a, passing through bent-down portions or edges 3^b 3^c of the members or parts 2 2^a, respectively. This construction and arrangement of parts while serving as aforesaid also holds down the rubber cushion or calk under sufficient pressure to cause it to have the requisite frictional engagement with the contacting surface for the purpose above stated. Also it will be observed that the entire device is connected to the horseshoe by a single fastening or rivet and is twofold in its function; also, that the plate or part 2 will measurably yield to lessen the force of the jar or concussion in event of the contact therewith of certain obstacles—as, for instance, a stone and the like—besides permitting a compensating action of the rubber cushion as it

wears, it normally being of such thickness as to hold the transverse member more or less off the shoe.

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

A horseshoe having attached to its toe end, upon the inner upper edge a steel or metal guard-plate, having its rear end unattached to the shoe and provided with a transverse member, at said rear end, with its ends resting or bearing freely upon the shoe laterally, and a

cushion of frictional or elastic material, said guard-plate and transverse member having downwardly-bent portions embracing or engaging said cushion and having passing there-through fastenings securing in place said cushion, substantially as set forth. 15

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

CARL A. JUDSEN.

Witnesses:

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