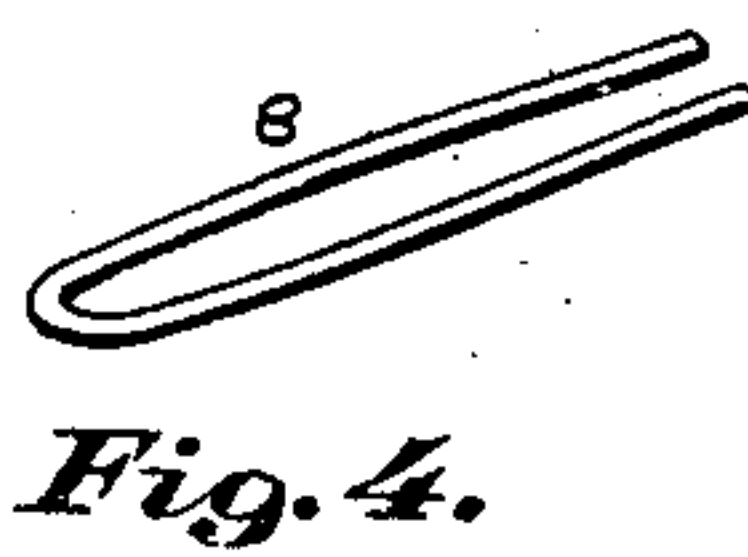
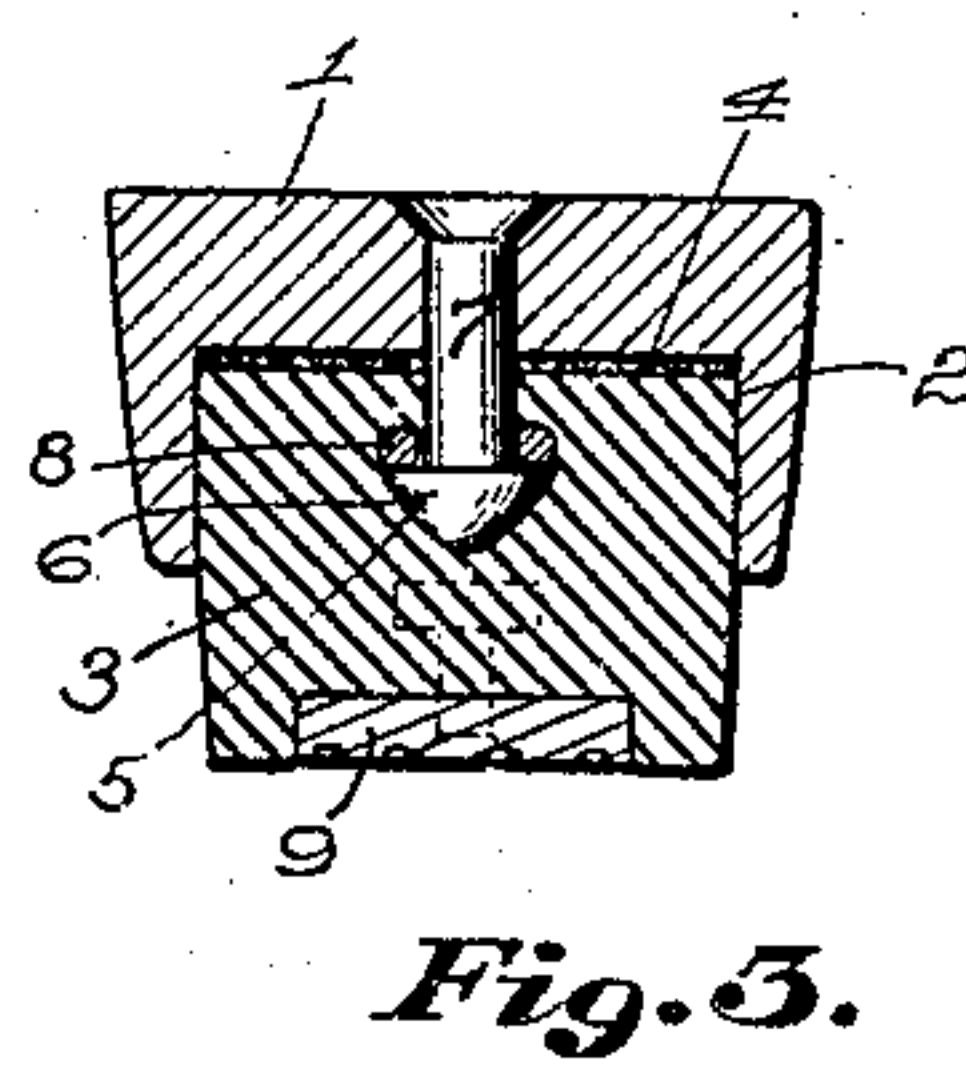
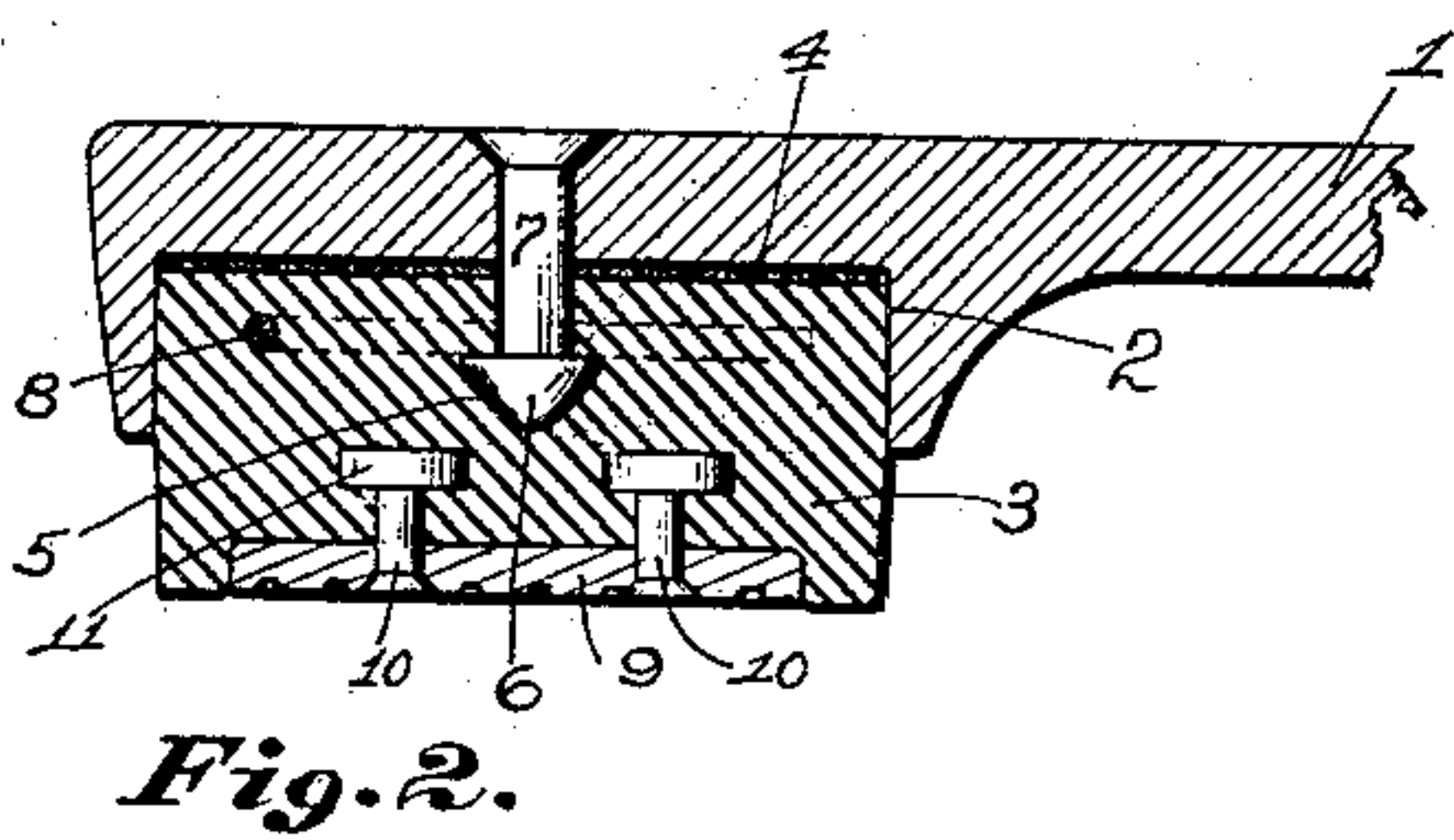
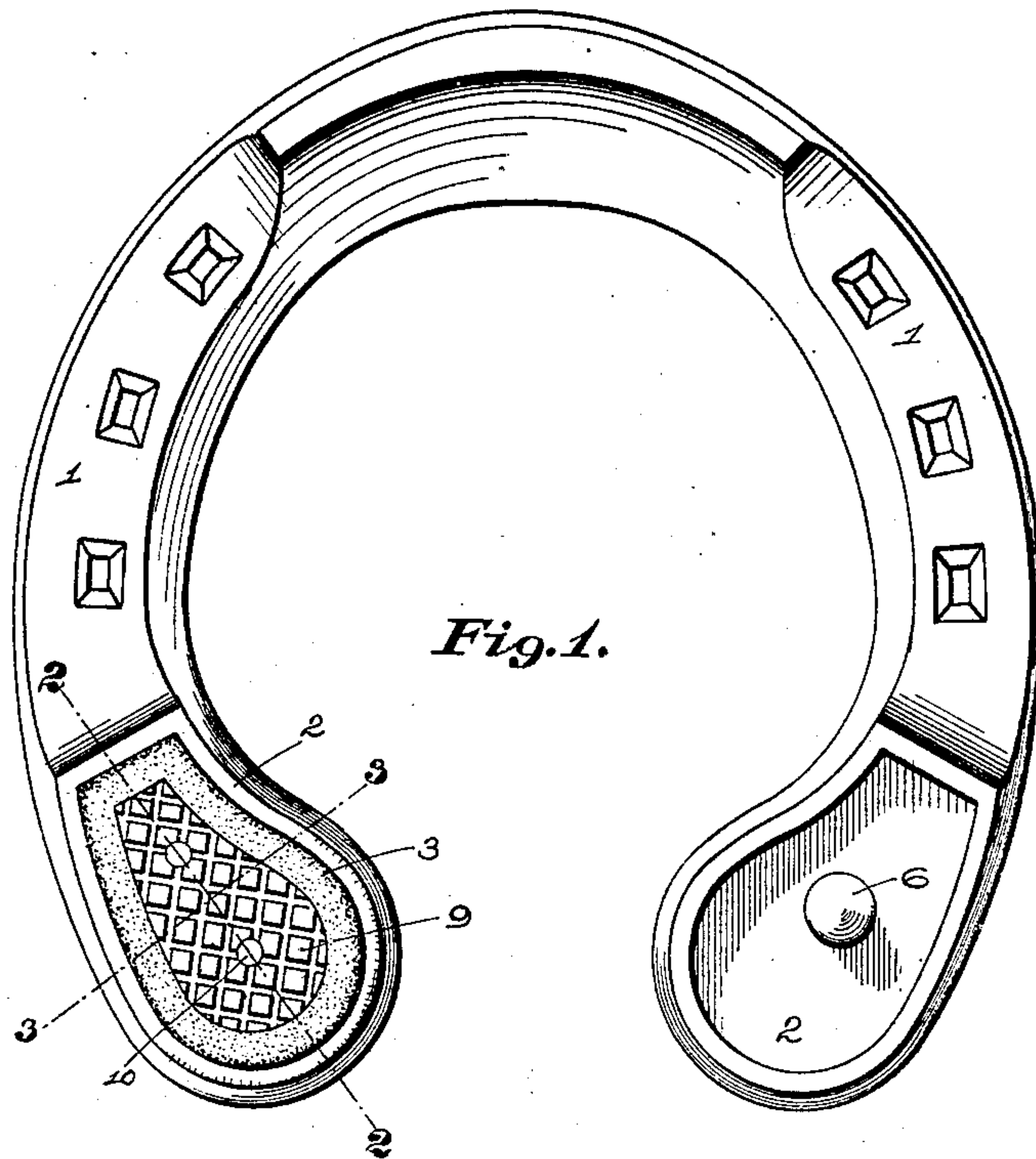


903,759.

H. PAAR.
HORSESHOE.
APPLICATION FILED APR. 20, 1908.

Patented Nov. 10, 1908.



Witnesses

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UNITED STATES PATENT OFFICE.

HENRY PAAR, OF CANTON, OHIO, ASSIGNOR OF ONE-HALF TO CHARLES McGRANAHAN, OF CHICAGO, ILLINOIS.

HORSESHOE.

No. 903,759.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed April 20, 1908. Serial No. 428,155.

To all whom it may concern:

Be it known that I, HENRY PAAR, of Canton, county of Stark, and State of Ohio, have invented certain new and useful Improvements in Horseshoes, of which the following is a specification.

This invention relates to that class of horse shoes known as cushioned or soft tread shoes and it consists in combining a metallic shoe with cushioned pads, means whereby the cushioned pads are protected from rapid wear, and in attaching the various parts of the shoe together as hereinafter described.

In the drawing:—Figure 1 is a view showing the bottom of the shoe and illustrating one of the pads in position. Fig. 2 is a section on line 2—2, Fig. 1. Fig. 3 is a transverse section on line 3—3, Fig. 1. Fig. 4 is a detached view of the pad retaining spring. Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the metal shoe, which is provided with the heel sockets 2 formed substantially as shown, which sockets are for the purpose of receiving the cushioned pads 3, which pads are formed of such a thickness that their bottom or under surfaces may be extended beyond the bottom or lower edges of the sockets 2. To the pads 3 are attached the canvas strips 4, which canvas strips are secured preferably by the vulcanization of the rubber constituting the pads 3 so as to produce what might be termed integral pads. The pads 3 are provided with chambers 5, which chambers are for the purpose of receiving the conical heads 6 of the connecting bolts 7, which connecting bolts are extended a short distance into the sockets 2, said bolts being securely connected to the shoe proper.

It is well understood that it is of importance that the pads 3 have no relative movement as between themselves and the shoe. In order that this result may be accomplished I provide retaining pins 8, which retaining pins are preferably formed of spring material and are constituted of two parallel or substantially parallel members, said members being joined together in such a manner that their free ends are free to spring apart when the springs pass the con-

ical heads 6, and are again free to engage the top or plain surfaces at the top of said conical heads.

It will be understood that there is some yielding of the rubber pads, but in order that the springs may better hold the pads they are formed of highly tensioned spring material. It is well understood that in soft tread horse shoes the rubber or other like material is rapidly cut or worn away and in order that the cushioned or soft tread effect may be maintained and at the same time the rapid wearing away of the cushioned pads be prevented I provide the metal plates 9, which metal plates are connected to the cushioned pads by means of the rivets or bolts 10, which are provided with the large heads 11. Said headed rivets are vulcanized in the cushioned pads, thereby securely connecting the metal plates 9 to the cushioned pads, but in such a manner that a metal contact is provided for the bottom or the underside of the cushioned pads but the elasticity is maintained.

In use I prefer to extend the rubber or cushioned pad around the metal plates 9 so that a small surface of the cushioned pads is exposed or in other words free for contact with the ground or pavement.

It will be understood that by locating the various connecting bolts as illustrated the elasticity of the cushion is not interfered with, owing to the fact that as the cushioned pads are compressed there can be no contact as between the heads 11 of the rivets 10 and the heads of the bolts 7.

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

1. In a horse shoe of the class described, a shoe provided with sockets, headed bolts secured to the shoe body and extended into the sockets, cushioned pads located in the sockets, said cushioned pads provided with metallic plates, headed bolts connected to the plates, the heads of said bolts seated in the cushioned pads, substantially as and for the purpose specified.

2. In a horse shoe of the class described, a shoe body provided with pad sockets, pads located in the sockets, conical headed bolts fixed to the shoe body and extended into the

sockets, cushioned pads provided with wear plates, means for connecting said plates to the cushioned pads, and a retaining spring embedded in the cushioned pads and adapted
5 for engagement with the conical heads of the bolts secured to the shoe body, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

HENRY PAAR.

Witnesses:

J. A. JEFFERS,
F. W. BOND.