

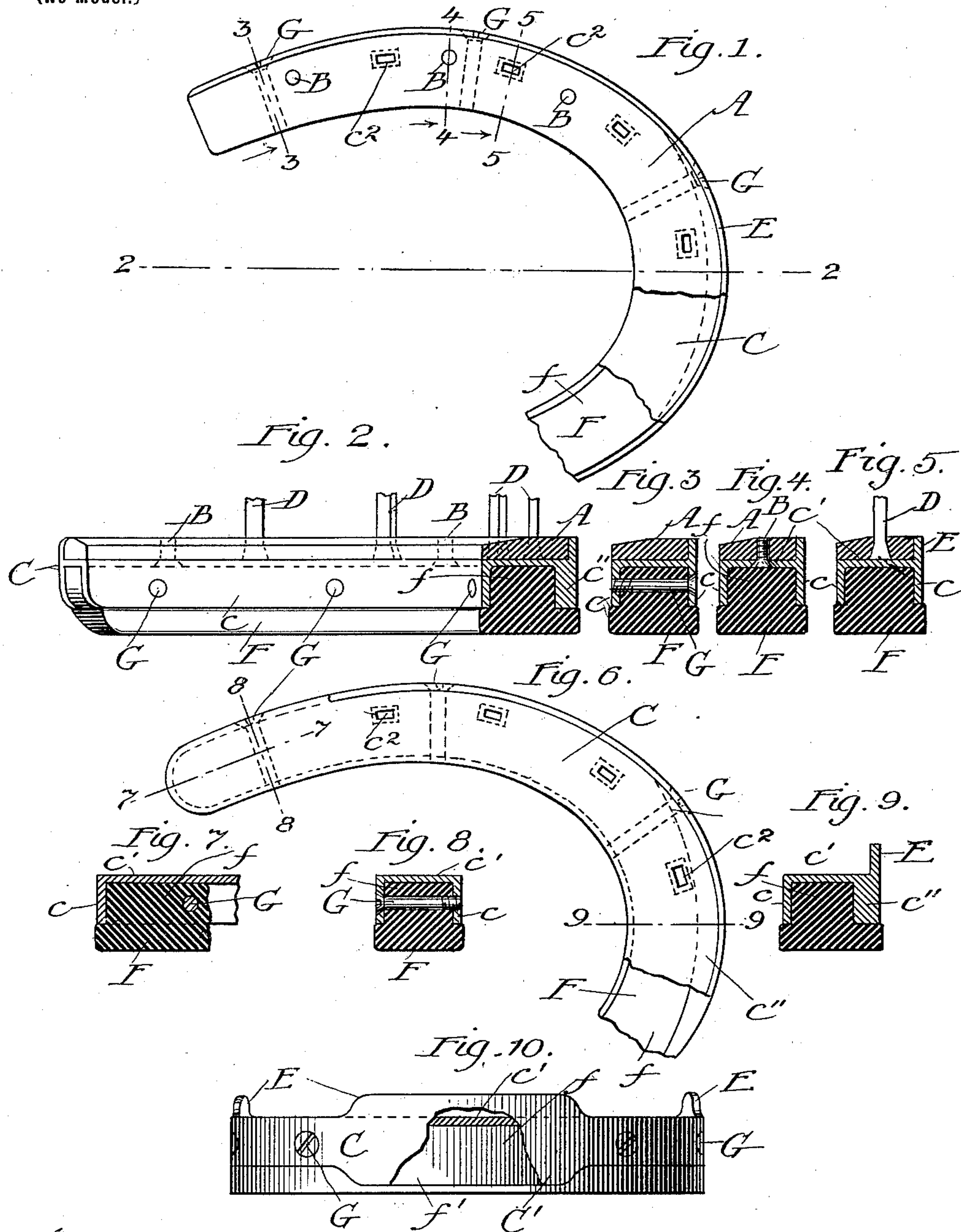
No. 612,953.

Patented Oct. 25, 1898.

A. M. MEISNER.  
SOFT TREAD HORSESHOE.

(Application filed Feb. 28, 1898.)

(No Model.)



Witnesses:

Frank S. Blanchard

J. Cross.

Inventor:

Anthony M. Meisner

By Attorneys

Quincy & Hopkins



# UNITED STATES PATENT OFFICE.

ANTHONY M. MEISNER, OF CHICAGO, ILLINOIS.

## SOFT-TREAD HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 612,953, dated October 25, 1898.

Application filed February 28, 1898. Serial No. 672,049. (No model.)

*To all whom it may concern:*

Be it known that I, ANTHONY M. MEISNER, 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, of which the following is a specification, reference being had to the accompanying drawings, which are made a part hereof, and in which—

Figure 1 is a plan view of a portion of a horseshoe embodying the invention in its preferred form. Fig. 2 is a sectional elevation thereof, the plane of the section being indicated by the line 2 2, Fig. 1. Figs. 3, 4, and 5 are sections thereof on the lines 3 3, 4 4, and 5 5, respectively, of Fig. 1. Fig. 6 is a plan view of a portion of a horseshoe embodying some features of the invention. Figs. 7, 8, and 9 are sections thereof on the lines 7 7, 8 8, and 9 9, respectively, of Fig. 6. Fig. 10 is a front view of a horseshoe embodying some features of the invention.

The present invention relates to that class of horseshoes which are provided with elastic cushions or pads which are adapted to have contact with the ground or pavement and are intended to relieve the hoof of the jar incident to shoes made wholly of metal.

The objects of the invention are to provide a shoe of this class in which the metal portions may be made light and elastic, so that the shoe as a whole will have a considerable degree of elasticity; to provide a shoe of this class in which the elastic pad is secured to a shoe in the nature of a supplemental shoe, which in turn is secured to the hoof through the medium of a light shoe of ordinary construction without calks, so that when desired the supplemental shoe may be removed and the shoe without calks used without it; to provide a shoe of this class with an elastic pad of such construction that it will prevent the metal portion of the shoe from coming in contact with the ground or pavement, and to provide improved means for securing the elastic pad in place, to the end that it may readily be replaced when worn out.

To these ends the invention consists in the features of novelty that are hereinafter fully described.

A represents a horseshoe which is without calks and is of ordinary construction, except-

ing that it is provided with tapped or threaded openings for the reception of screws B, by which a supplemental shoe C may be secured to it. The shoe A is secured to the hoofs by nails D in customary manner. The supplemental shoe C is preferably provided with a marginal flange E, which embraces the shoe A and fits snugly around the outer edge thereof, so as to relieve the attaching-screws B of the severe lateral strains which would be put upon them if the shoes A and C did not have overlapping features. It is the intention that the shoe A shall be made very light, (lighter than would be required for ordinary use if the supplemental shoe C were not used,) and at the same time it is the intention that when it is desired to do so the supplemental shoe C may be removed, leaving the shoe A for use in customary manner. The supplemental shoe is preferably made of rather thin metal, so that it will have a greater degree of elasticity than shoes of ordinary construction. It is provided in its under side with a channel in which the rib *f* of an elastic pad F (preferably made of rubber) fits, the lower portion of the pad being of sufficient width to overlap the lower edges of the flanges *c* of the supplemental shoe, thus interposing a body of elastic material between the metal portion of the supplemental shoe and the ground or pavement. In order to have the desired degree of elasticity, the flanges *c* and top *c'* must be rather thin; but in order to give the supplemental shoe adequate strength at the toe, which is the part subjected to the most severe strains, it is thickened, as shown at *c''*. In order to secure the elastic pad in place, any suitable means may be employed; but I prefer to use screws G, which have their heads presented outward and are passed through perforations in the outer flange *c* and in the rib *f* of the elastic pad, their inner portions being threaded for engaging correspondingly-threaded openings in the inner flange *c*. This means for securing the elastic pad in place on the supplemental shoe is simple and effective and enables the pad to be quickly removed when worn and a new one put in its place.

I prefer to secure the elastic pad to a shoe which is supplemental to a shoe which is permanently secured to the hoof, as above de-



scribed; but, if desired, the shoe A may be dispensed with and the shoe to which the elastic pad is secured attached directly to the hoof, in which case this latter shoe is not supplemental in its nature. A shoe of this character is shown in Figs. 6 to 10, inclusive, in which parts similar to parts shown in Figs. 1 to 5, inclusive, bear similar reference-letters. In this case the shoe is provided with openings  $c^2$  for the passage of nails by which it is secured to the hoof, and the flange E embraces the margin of the hoof. This flange may be coextensive with the outer margin of the shoe, as shown in Figs. 1 and 2, or it may be placed only on the front of the shoe, as shown in Fig. 6, or it may be interrupted and placed at the front and sides, as shown in Fig. 10. In the latter figure the shoe is provided with a toe  $C'$  and in this case the elastic pad is correspondingly recessed, as shown at  $f'$ .

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A light horseshoe having a lower surface adapted for contact with the ground or pavement, in combination with a supplemental shoe, a flange rising from the supplemental

shoe and adapted to engage the main shoe, means for securing the supplemental shoe to the main shoe, an elastic pad, and means for securing it to the supplemental shoe, substantially as set forth.

2. A light horseshoe provided with threaded openings and having a lower surface adapted for contact with the ground or pavement, and means for securing it to the hoof, in combination with a supplemental shoe having a channel in its under side, a flange presented upward and adapted to engage the main shoe, and openings adapted to register with the threaded openings aforesaid, screws passing through the openings of the supplemental shoe and engaging the threaded openings of the main shoe, an elastic pad disposed in the channel of the supplemental shoe and engaging the heads of the screws aforesaid, and screws passing through the sides of the channel and through the pad, for securing the latter in place, substantially as set forth.

ANTHONY M. MEISNER.

Witnesses:

L. M. HOPKINS,

I. CROSS.