

(No Model.)

E. F. PFLUEGER.
DETACHABLE HORSESHOE.

No. 584,701.

Patented June 15, 1897.

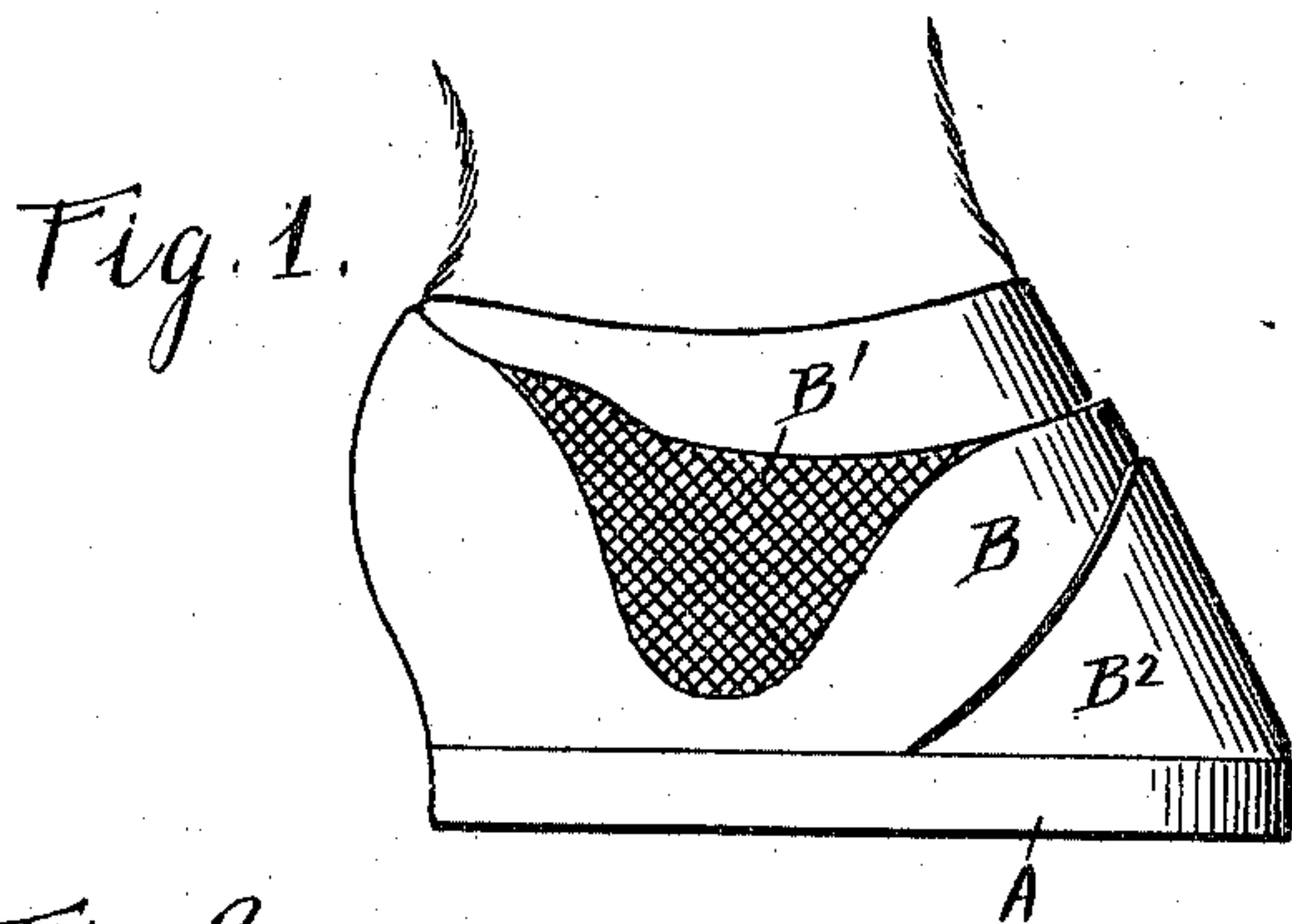


Fig. 2.

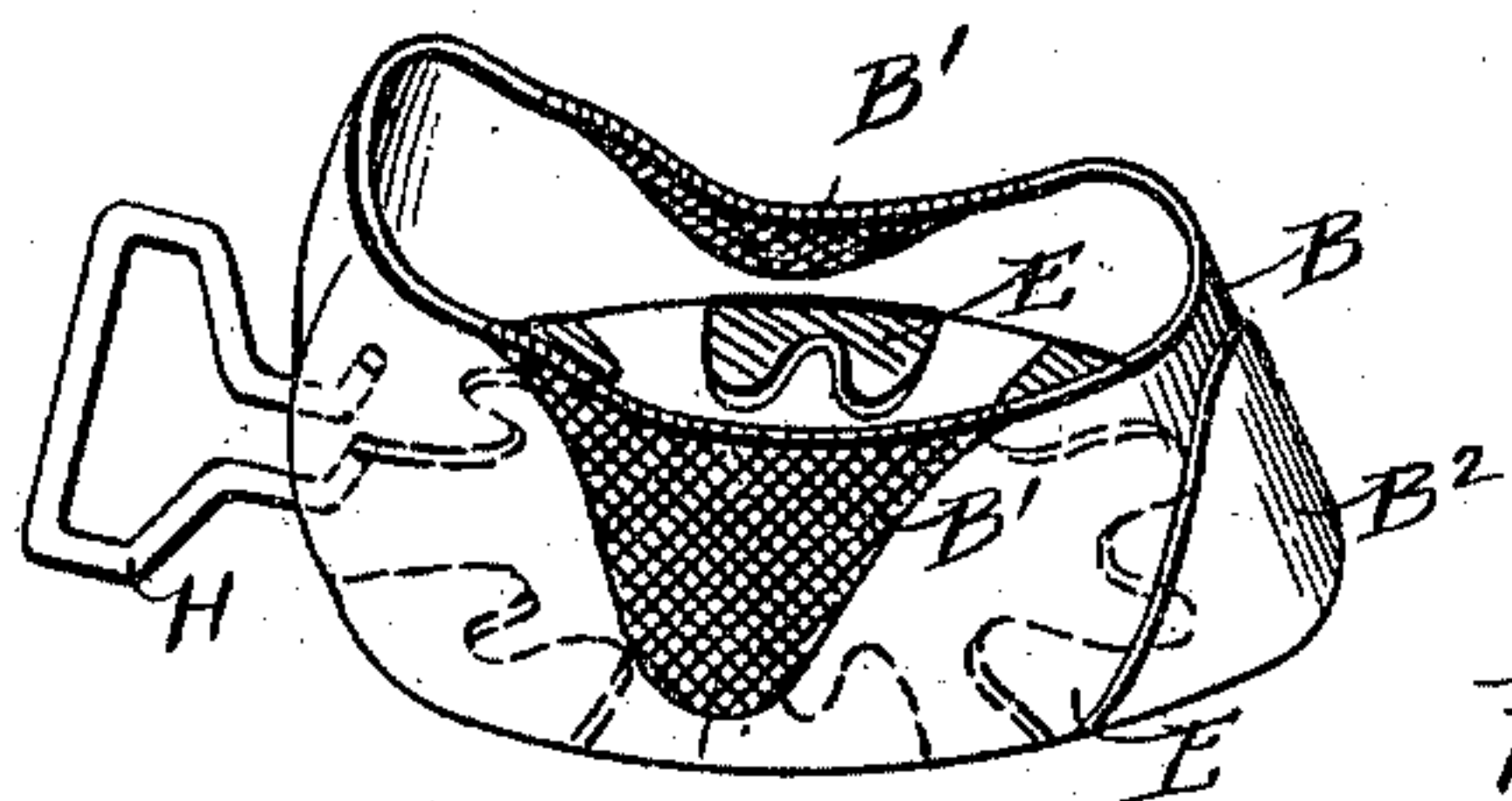


Fig. 3.

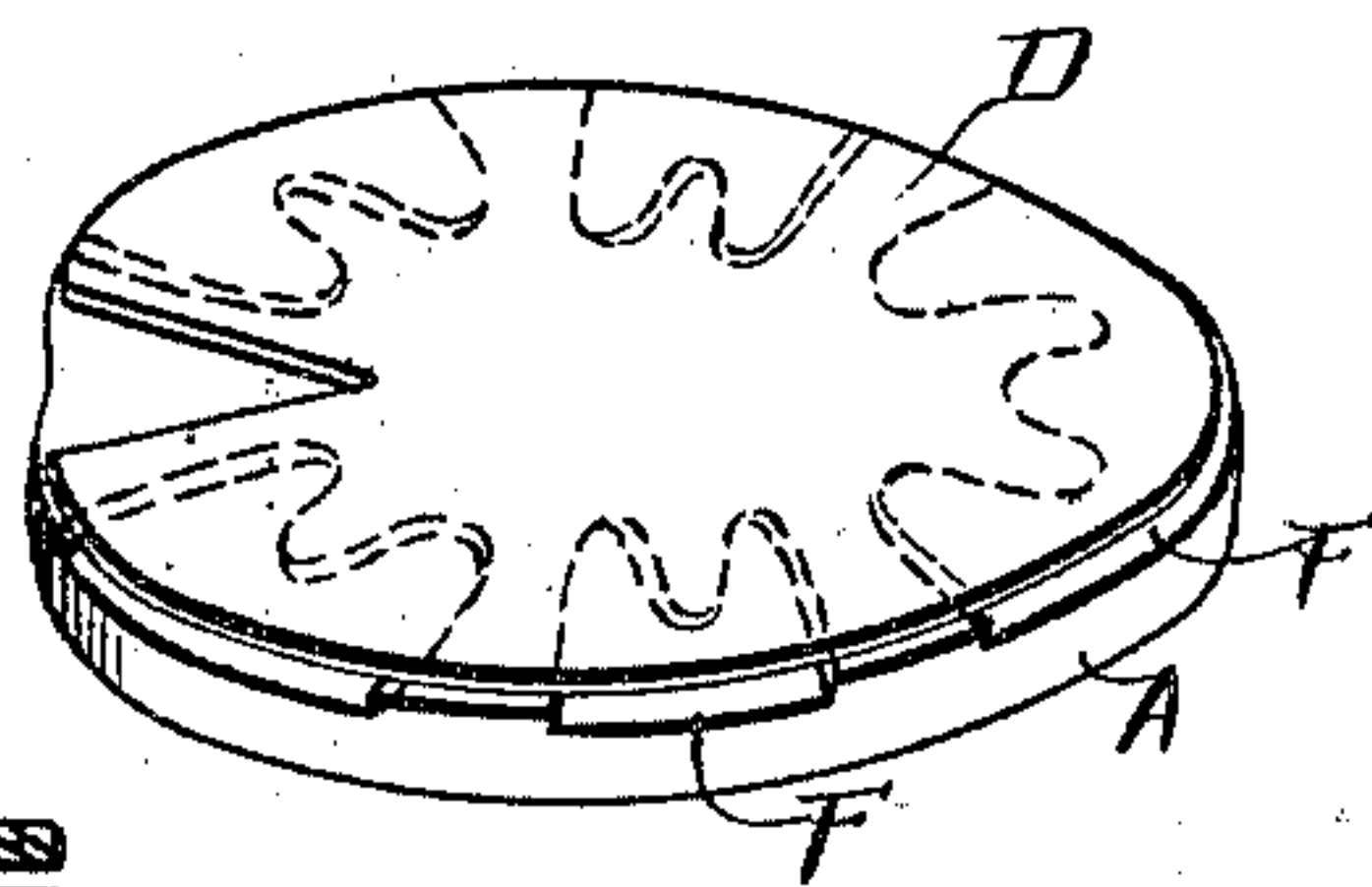


Fig. 6.



Fig. 5.

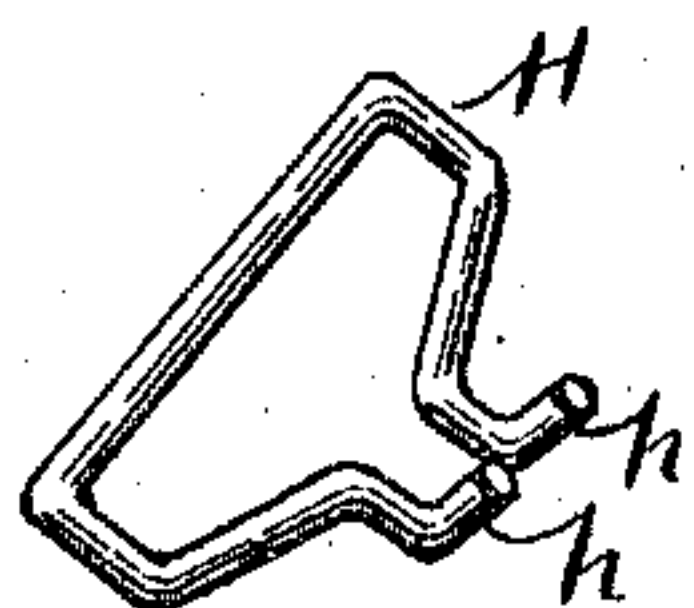


Fig. 4.

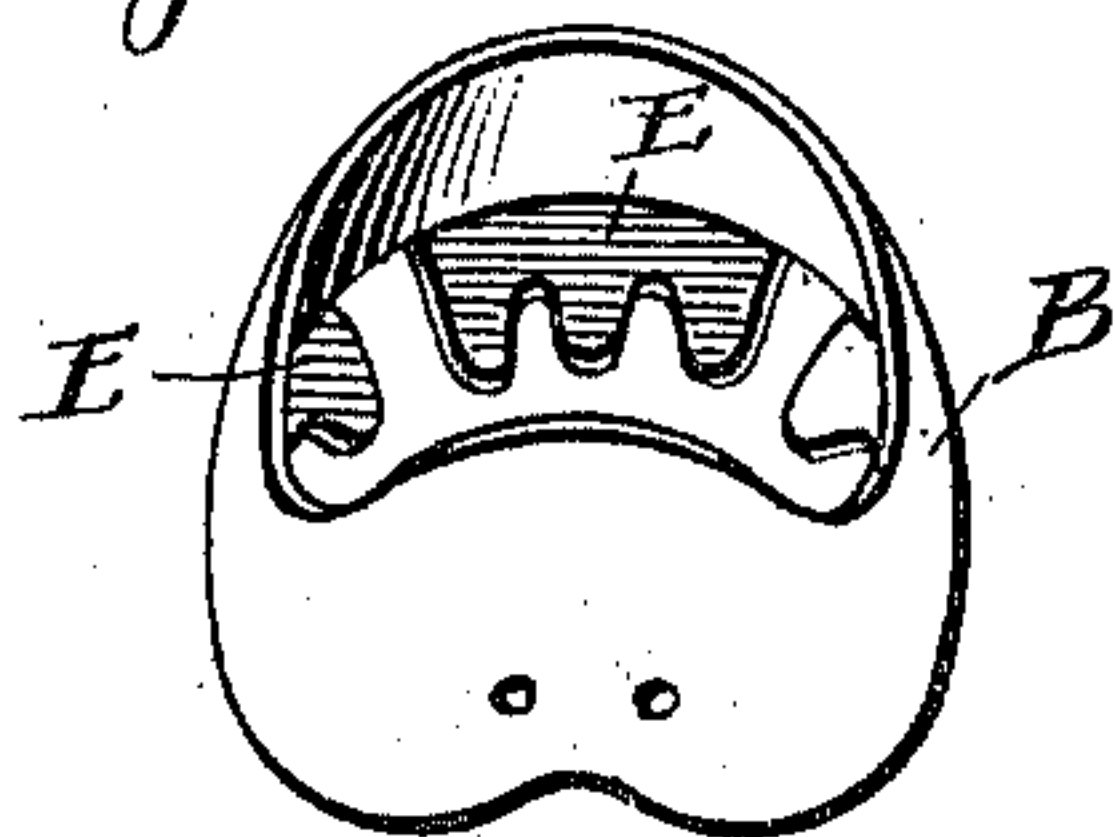
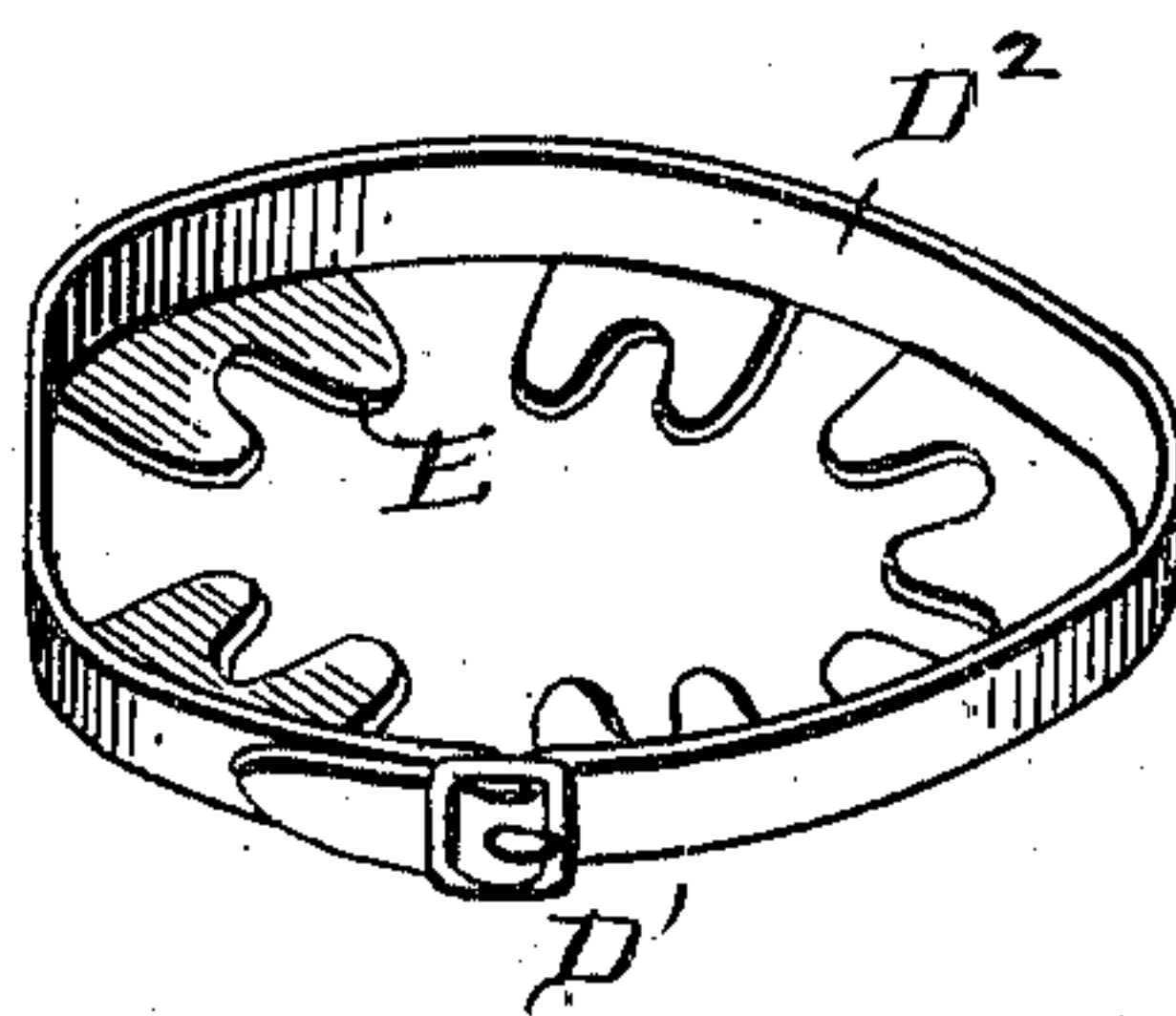


Fig. 7.



Witnesses.

G. Anderson
Philip Massi.

Inventor.

E. F. Pflueger
E. W. Anderson
his
Attorney.

UNITED STATES PATENT OFFICE.

ERNEST F. PFLUEGER, OF AKRON, OHIO.

DETACHABLE HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 584,701, dated June 15, 1897.

Application filed December 31, 1896. Serial No. 617,541. (No model.)

To all whom it may concern:

Be it known that I, ERNEST F. PFLUEGER, a citizen of the United States, and a resident of Akron, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Detachable Horseshoes; and I do 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a side view of invention as applied. Fig. 2 is a perspective view of boot portion of shoe with device H in position. Fig. 3 is a perspective view of tread portion of shoe. Fig. 4 is a perspective view of boot portion from rear. Fig. 5 is a perspective view of device H. Fig. 6 is a sectional view of modification of tread, and Fig. 7 is a perspective view illustrating the use of a strap in place of boot.

This invention is designed to provide a soft or flexible tread horseshoe the tread portion of which can be readily removed from the upper portion when worn out and be thereupon replaced by a new tread, the entire shoe being also readily detachable from the foot at any time without the necessity for the service of a smith.

With this object in view the invention consists in the novel construction and combination of parts, all as hereinafter described, and pointed out in the appended claims.

My improved horseshoe consists of two parts—to wit, a sole or tread portion (designated by letter A in the accompanying drawings) and an upper or boot portion B.

The sole or tread portion is designed to be made of rubber, leather, or other flexible material or of a covering or casing of such material filled with steel or iron filings, emery, corundum, or other comminuted material, as indicated at C, Fig. 6. If desired, this portion may have a metal plate secured thereto, as shown at D, Fig. 3.

The upper or boot portion B may be made in various ways. It may consist, as shown in Fig. 1, of a piece of leather, which is shaped

to slip over the hoof and foot in manner similar to that in which an overshoe is slipped upon the human foot, being provided with gores or insertions B' of rubber or of elastic webbing, or it may be made entirely of rubber or other elastic fabric. The toe portion is preferably provided with a cap or shield B² of metal. I also propose to make the boot in the shape of a strap, such as shown at D² in Fig. 7, which is designed to be fastened around the hoof and to be secured by a buckle D' or other suitable fastening device.

E designates a series of lugs or plates by means of which the sole or tread portion is designed to be securely but detachably connected to the upper or boot portion. These lugs or plates are usually of L form, their vertical arms being riveted or otherwise firmly secured to the boot with their horizontal arms projecting inwardly. To receive these horizontal arms the sole or tread portion is formed with a series of recesses F, which may be formed in the body thereof, and which may be provided for by leaving a space underneath the marginal portion of the metal plate D. (Shown in Fig. 3.)

When the lugs or plates are sprung into engagement with these recesses and the boot portion is secured upon the foot, the sole or tread portion is securely held thereby and cannot work loose or escape.

The entire shoe is designed to be of inexpensive character, the principal expense being for the boot or strap portion, which can be used indefinitely, the sole or tread portion being removed and replaced as often as worn out. The shoe is, moreover, easy for the foot and can be readily applied or removed without the assistance of an artisan.

To assist in pulling the shoe on a detachable device, such as shown at H, Fig. 5, may be used. This device has hooks h, which are designed to be engaged with perforations in the rear portion of the boot.

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

1. The herein-described detachable horseshoe, consisting of a flexible boot portion adapted to be held around the hoof, and having at its lower edge a series of inwardly-projecting metallic lugs, and a tread portion

consisting of a thick pad of soft yielding material or character and adapted to fit within the said boot portion, and having in its peripheral edge a number of recesses or openings for the reception of said lugs, substantially as specified.

2. The herein-described horseshoe, comprising an elastic boot portion designed to be slipped over the hoof and retained in place by reason of its elasticity, and provided at its lower portion with inwardly-projecting lugs or plates, and a soft flexible tread portion having peripheral recesses designed to be engaged by said lugs or plates, substantially as specified.

3. The herein-described horseshoe, comprising an elastic boot portion designed to be slipped over the hoof and retained in place by reason of its elasticity, and provided at its lower portion with inwardly-projecting lugs or plates, and a soft flexible tread portion having peripheral recesses designed to be engaged by said lugs or plates, substantially as specified.

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

ERNEST F. PFLUEGER.

Witnesses:

F. W. WAKEMAN,
W. E. PALMER.