(No Model.)

D. L. MAYOW.

FASTENING FOR NAILLESS HORSESHOES.

No. 492,691. Patented Feb. 28, 1893.

Fig. 1.

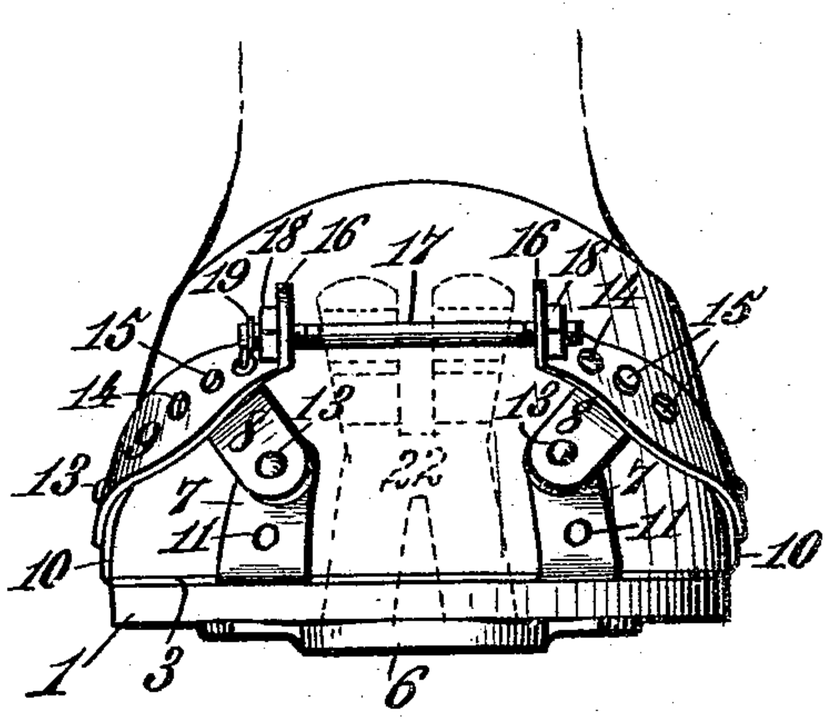

Fig. 2.

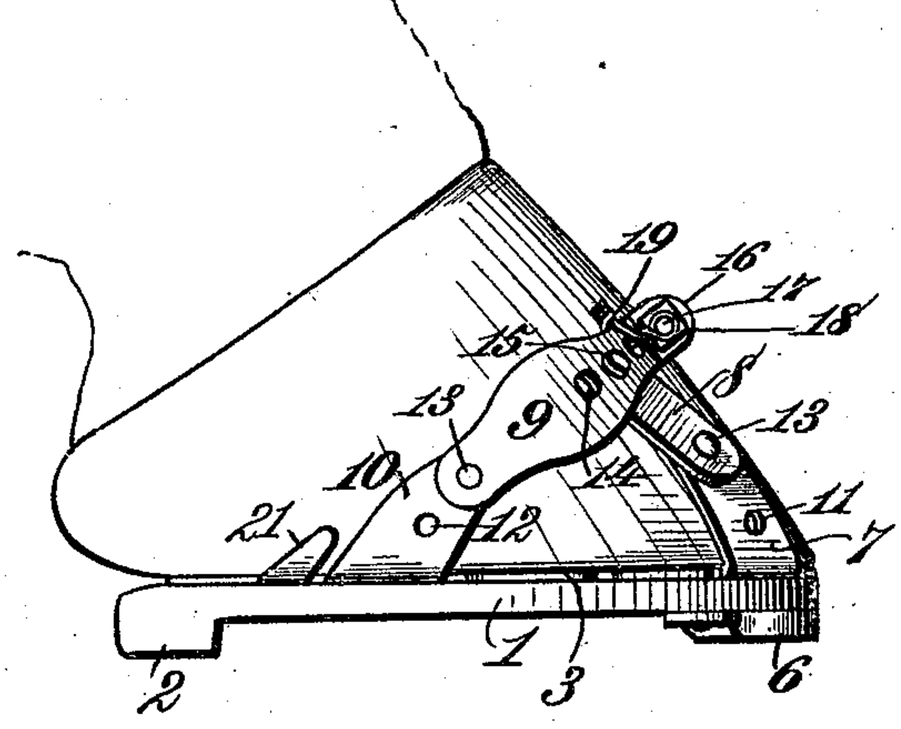

Fig. 3.

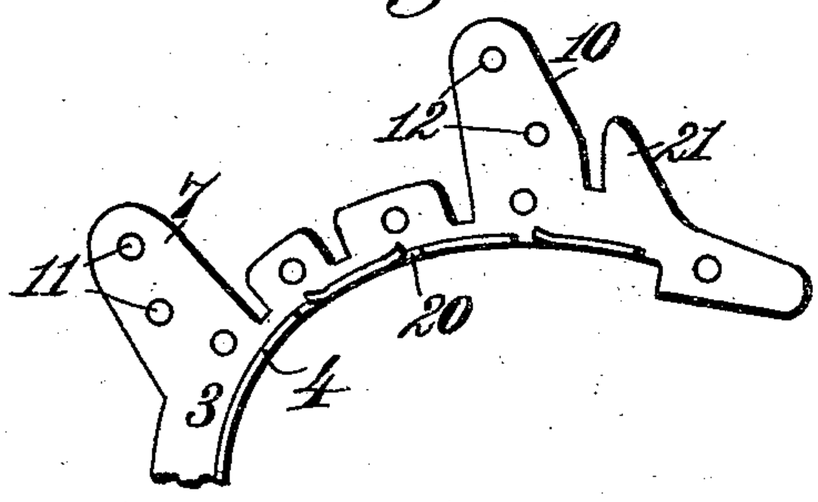

Fig. 4.

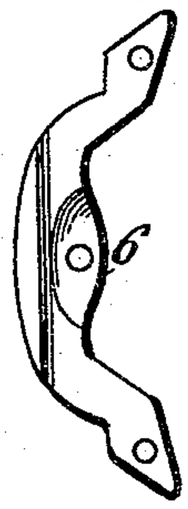

Fig. 5.

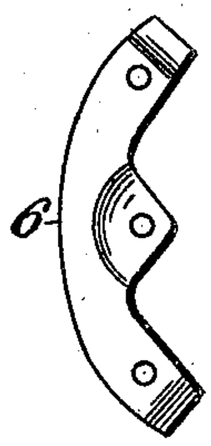

Fig. 6.

Fig. 7.

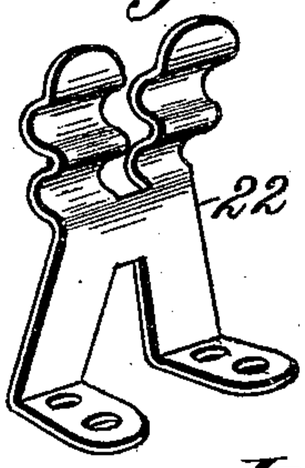

Fig. 8.

Witnesses.
Robt Ewell.
J. A. Rutherford.

Inventor:
Daniel L. Mayow.
By Munn & Co Norris.
Attys.

UNITED STATES PATENT OFFICE.

DANIEL L. MAYOW, OF MOUNT SYLVAN, TEXAS.

FASTENING FOR NAILLESS HORSESHOES.

SPECIFICATION forming part of Letters Patent No. 492,691, dated February 28, 1893.

Application filed July 13, 1892. Serial No. 439,917. (No model.)

To all whom it may concern:

Be it known that I, DANIEL L. MAYOW, a citizen of the United States, residing at Mount Sylvan, in the county of Smith and State of Texas, have invented new and useful Improvements in Horseshoes, of which the following is a specification.

My invention relates to a detachable nailless horseshoe and it consists in the peculiarities of construction and novel combinations of devices as hereinafter particularly described and claimed.

In the annexed drawings illustrating the invention—Figure 1 is front view of my improved horseshoe applied to a horse's foot. Fig. 2 is a side view of the same. Fig. 3 is a plan of one half or side of the shoe-plate before its wings and flange are bent into position, the other half being similar. Figs. 4 and 5 are views of toe-bars that may be used with the shoe. Fig. 6 is a view of a half-sole or toe-plate that may be attached to the upper side of the shoe-plate. Fig. 7 is a view of the front brace. Fig. 8 is a view of a heel wedge.

Referring to the drawings, the numeral 1 designates a horseshoe which may be provided with heel calks 2 that can be formed on the shoe or attached thereto in any convenient manner.

Securely riveted to the upper surface of the shoe 1 is a steel shoe-plate 3 having its rear curved edge provided with a vertical flange 4 which may engage the rear curved edge of a half-sole or toe-plate 5 that can be riveted to the shoe-plate 1 in case the front of the hoof should be much worn.

To the under side of the shoe 1 is secured a toe-bar or calk 6 that may be constructed in either of the forms shown in Figs. 4 and 5.

On the shoe-plate 3, near its front, are formed vertically curved wings 7 that conform closely to the front portion of the hoof. To each of these wings 7 is pivotally attached a link 8 which is adapted to be adjustably connected with a half-band 9 that is pivotally and adjustably connected to a wing 10 formed on the side of the shoe-plate 3 near its heel portion. The wings 10 project forward, as shown, and are curved inward and upward to conform to the sides of the hoof. In the front wings 7 may be formed two perforations 11 and in the side wings 10 may be formed two perforations 12 so that the links 8 and half-bands 9 can be adjusted to any desired position with relation to said wings by simply shifting the pivots 13 on which said links and half-bands are supported. Each half-band 9 is provided with a series of perforations 14 in either of which can be inserted the rivet 15 that adjustably or detachably connects it with the adjacent link. The forward end of each half-band 9 is provided with a forward projecting lug 16 that is perforated for the passage of a clamping bolt 17 the ends of which are screw-threaded and provided with nuts 18 by which the shoe is secured in place on the foot. By means of these nuts the shoe can be tightened to any desired degree and the half-bands can be made to exert such pressure as will prevent or check splitting or cracking of the hoof and close cracks already formed. This construction also enables the shoe to be readily adjusted to hoofs of varying sizes. The nuts 18 can be locked in any suitable manner, as by winding a piece of wire 19 on the screw-bolt adjacent to the outer side of each nut.

If desired the flange 4 of the shoe-plate 3 may be formed with a notched or cut edge 20, Fig. 3, to obviate any tendency to lateral slipping of the shoe, which is accomplished by bending in the corners of the notched portions. On the outer edge of the shoe-plate 3 at each side and near the heel is preferably formed a jaw or lug 21 which will also tend to prevent the shoe from slipping sidewise.

To the toe of the shoe, either above or below the shoe-plate 1 may be screwed, or otherwise securely attached, a front brace 22 which is extended upward and partly around the clamping bolt 17 to afford an additional means for holding the shoe in place. Heel wedges 23 may be inserted between the hoof and the heel of the shoe, on each side, if required.

A detachable nailless horseshoe of the construction above described is capable of ready and quick adjustment to the foot, and will not be liable to slip even under the severe strains to which draft shoes are subjected.

What I claim as my invention is—

1. In a nailless horseshoe, the combination, of the shoe-plate 3 having the front wings 7 and side wings 10 formed on said plate, the links 8 pivotally attached to the front wings,

the half-bands 9 pivotally attached to the side wings and adjustably connected to said links, and the clamping bolt 17 and nuts 18 connecting the opposite half-bands, substantially as described.

2. In a nailless horseshoe, the combination, of the shoe-plate 3 having integral therewith the front wings 7 and side wings 10, the half-bands 9 pivotally and adjustably attached to the side wings and provided with lugs 16, the links 8 pivotally and adjustably attached to the front wings and adjustably connected to the half-bands, and the clamping bolt 17 and nuts 18 adjustably connecting the lugs on the opposite half-bands, substantially as described.

3. In a nailless horseshoe, the combination, of the shoe-plate 3 having integral therewith the rear curved flange 4, the front wings 7 and side wings 10, the toe-plate 5, the half-bands 9 pivotally attached to the side wings, the links 8 pivotally attached to the front wings and adjustably connected to the half-bands, and a clamping bolt 17 that adjustably connects said half-bands, substantially as described.

4. In a nailless horseshoe, the combination of the shoe plate 3 having the rear upwardly curved flange 4 provided with a notched edge 20, the front wings 7 and side wings 10 integral with said shoe-plate, the half-bands 9 pivotally attached to the side wings, the links 8 pivotally attached to the front wings and adjustably connected to said half-bands, and the clamping bolt 17 that adjustably connects said half-bands, substantially as described.

5. In a nailless horseshoe, the combination of the shoe-plate having integral therewith the front wings 7, side wings 10, and side lugs or jaws 21, the half-bands 9 pivotally attached to the side wings, the links 8 pivotally attached to the front wings and adjustably connected to said half-bands, and the clamping bolt 17 connecting with opposite half-bands, substantially as described.

6. In a nailless horseshoe, the combination, of the shoe 1, the shoe-plate 3 provided with front wings 7 and side wings 10, the half-bands 9 pivotally attached to the side wings, the links 8 pivotally attached to the front wings and adjustably connected to the half-bands, the clamping bolt 17 connecting the opposite half-bands, and the front-brace 22 secured to the toe of the shoe and extended upward and against said clamping bolt, substantially as described.

7. In a nailless horseshoe, the combination, of the shoe 1, flanged shoe-plate 3 having the front wings 7 and side wings 10, the toe-plate 5, the toe-bar 6, the pivoted links 8 attached to the front wings, the pivoted half-bands 9 attached to the side wings and adjustably connected to said links, the clamping bolt 17 connecting said half-bands, and the front brace 22, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in the presence of two subscribing witnesses.

DANIEL L. MAYOW. [L. S.]

Witnesses:
I. P. WALKER,
JOS. DENMAN.