

No. 766,039.

PATENTED JULY 26, 1904.

J. E. HOFFMAN.  
HORSESHOE.

APPLICATION FILED MAR. 23, 1904.

NO MODEL.

FIG. 1.

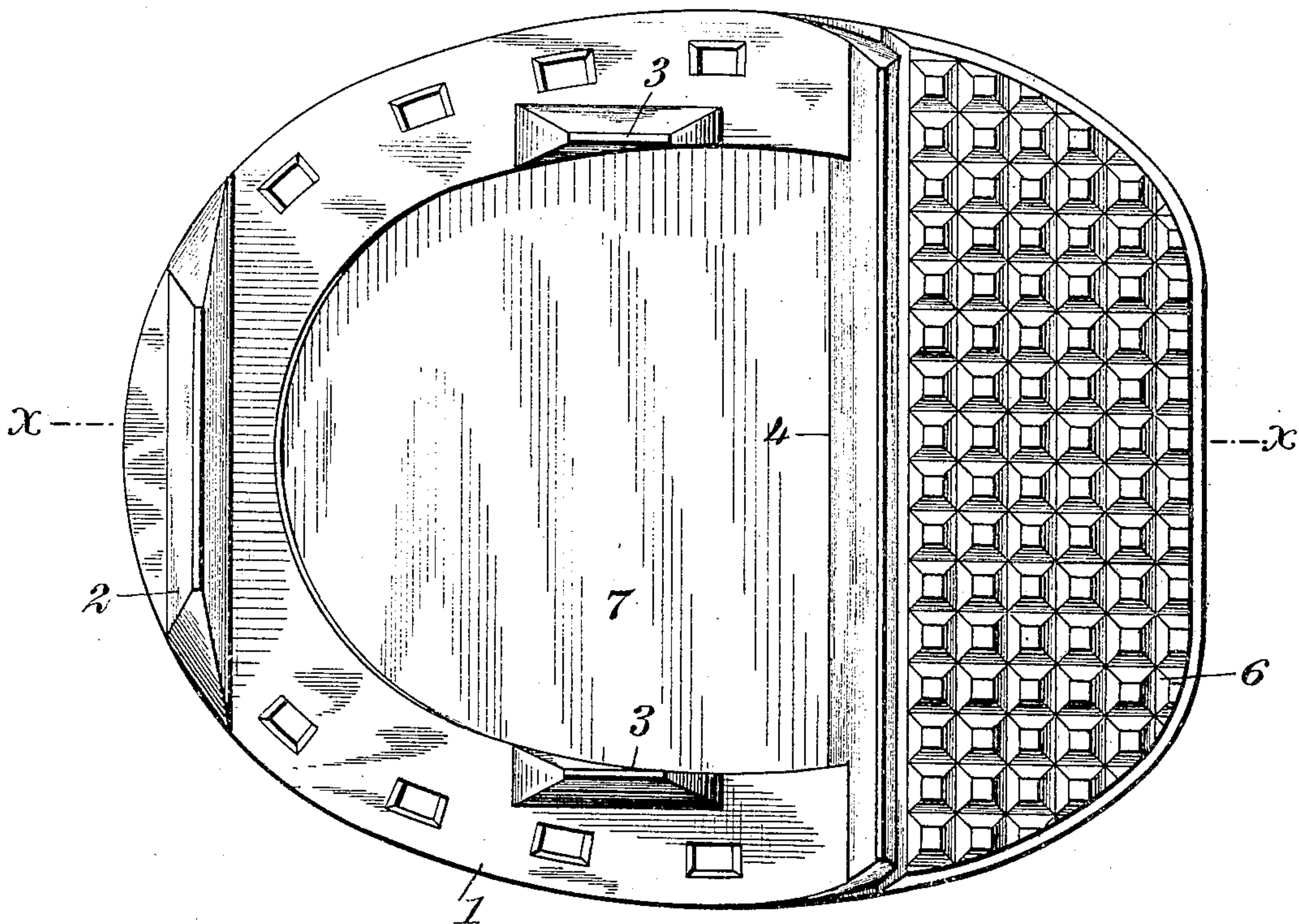
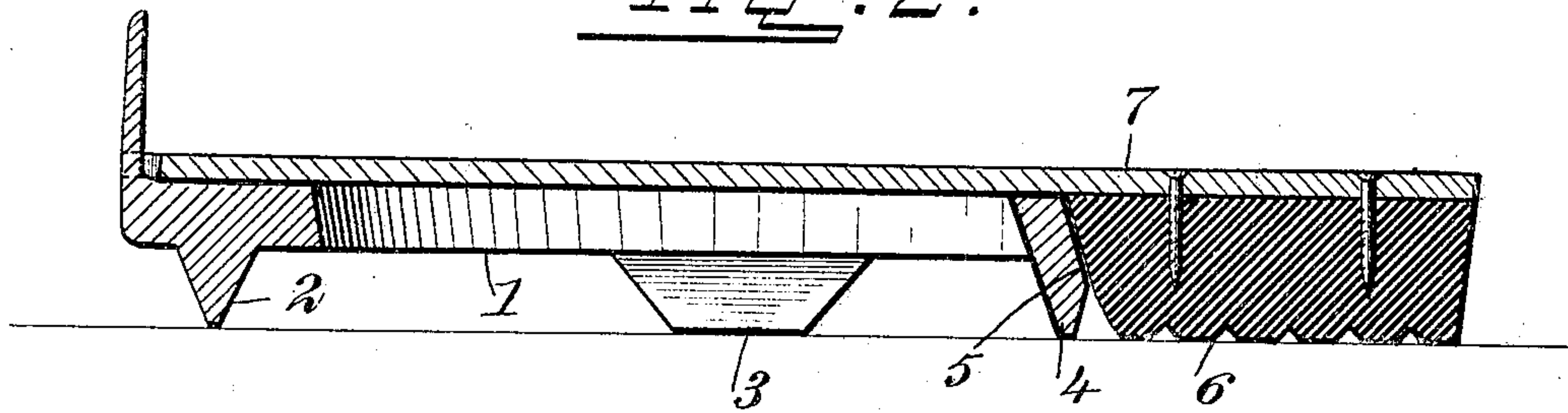


FIG. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOSEPH E. HOFFMAN, OF NEW YORK, N. Y.

## HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 766,039, dated July 26, 1904.

Application filed March 23, 1904. Serial No. 199,575. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH E. HOFFMAN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Horseshoe, of which the following is a full, clear, and exact description.

This invention relates to improvements in horseshoes designed particularly to prevent a horse from slipping on ice-covered or slippery pavements, an object being to provide a shoe of this character of simple and comparatively inexpensive construction and so arranged that a rubber heel-pad may be used in connection with it.

I will describe a horseshoe embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a bottom plan view of a horse-shoe embodying my invention, and Fig. 2 is a section on the line *xx* of Fig. 1.

Referring to the drawings, 1 designates a metal horseshoe having a toe-calk 2, which extends entirely across the toe portion of the shoe and to a practically sharp lower edge. The shoe is also provided at its sides with calks 3, which extend lengthwise of the shoe, and at the rear end there is a cross-bar 4, which is projected below the plane of the shoe and is sharpened to form a heel-calk. This bar 4 is formed integral with the rear end of the shoe, and its upper surface is practically flush with the upper surface of the shoe. At its rear side the bar is inclined downward and rearward, as indicated at 5, and this inclined portion is engaged by a correspondingly-inclined wall of a rubber heel-pad 6. These inclined portions form abutments to keep the heel-pad in its proper relation to the shoe. The heel-pad 6 is secured to a leather plate 7, having a portion extended over the shoe 1 and designed to be secured to the animal's hoof by the shoe-attaching nails. The sharpened edges of the several calks are on a plane with the

lower side of the heel-cushion, and therefore the several parts will wear evenly, and it will be noted that the cushion 6 is formed with projections on its under side.

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

1. A horseshoe comprising a metal portion, a bar extended across the rear portion of the shoe and forming a heel-calk, a flexible part extended rearward of the shoe and a heel-pad attached to said flexible part and having its front side engaging against said bar.

2. A horseshoe comprising a metal portion, a bar extended across the rear portion thereof and forming a heel-calk, the rear wall of said bar being inclined downward and outward, a leather plate for engaging on the upper side of the shoe, and a heel-pad attached to said plate and having an inclined front wall for engaging against the incline of said bar.

3. A horseshoe comprising a metal portion, a toe-calk extended entirely across the toe portion of the shoe, side calks extended lengthwise of the shoe, a bar connecting the rear ends of the shoe and forming a heel-calk, a leather plate adapted to be secured between the shoe and the hoof of a horse, the said plate having a portion extended rearward of the shoe, and a rubber pad secured to said extended portion.

4. A horseshoe comprising a metal part, a bar connecting the rear ends thereof, the upper surface of said bar being on a plane with the upper surface of the shoe while the lower portion extends below the plane of the shoe and forms a heel-calk, a toe-calk extended entirely across the toe portion of the shoe, a plate adapted to be secured between the shoe and the hoof of a horse and having a rearward extension, and a rubber pad on the extension abutting against said bar.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH E. HOFFMAN.

Witnesses:

C. R. FERGUSON,

EVERARD BOLTON MARSHALL.