

(No Model.)

P. PITTON.

HORSESHOE.

No. 350,840.

Patented Oct. 12, 1886.

Fig. 1.

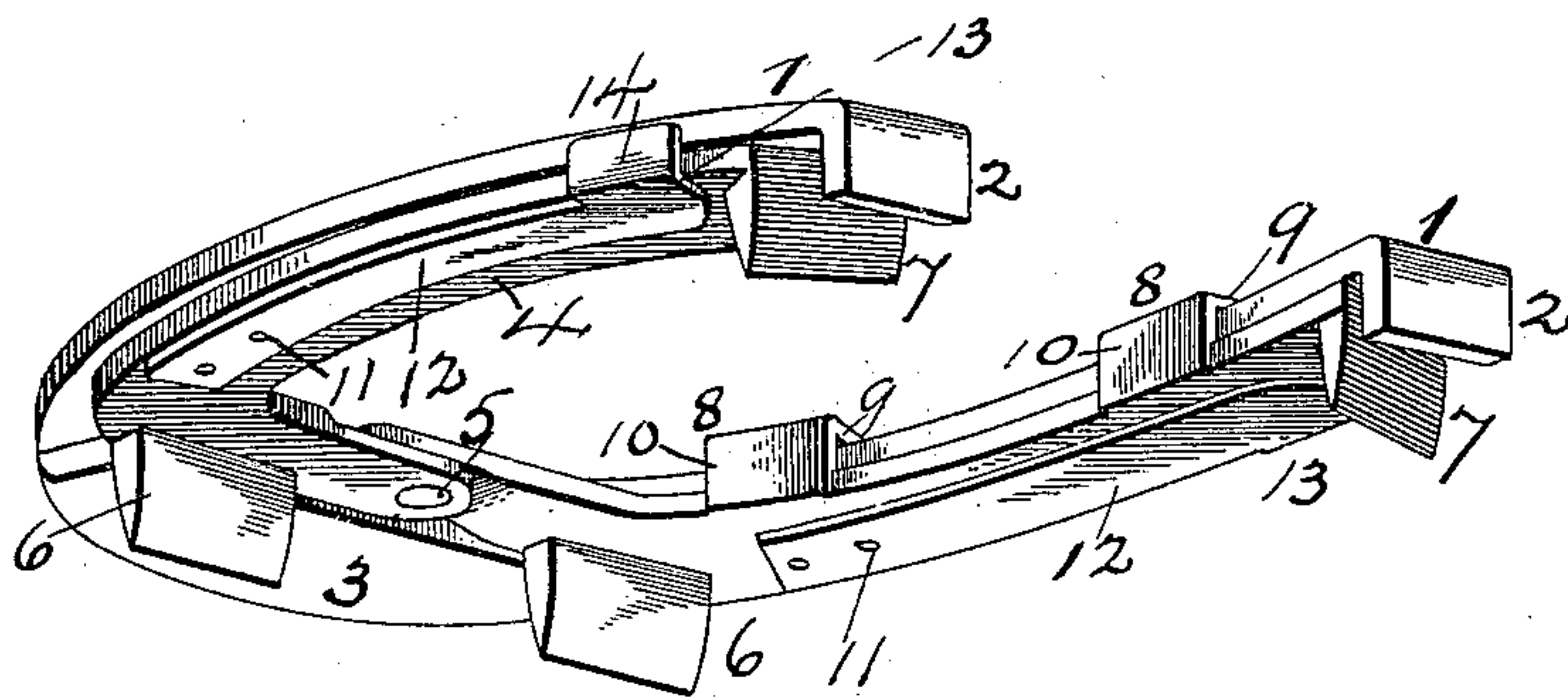
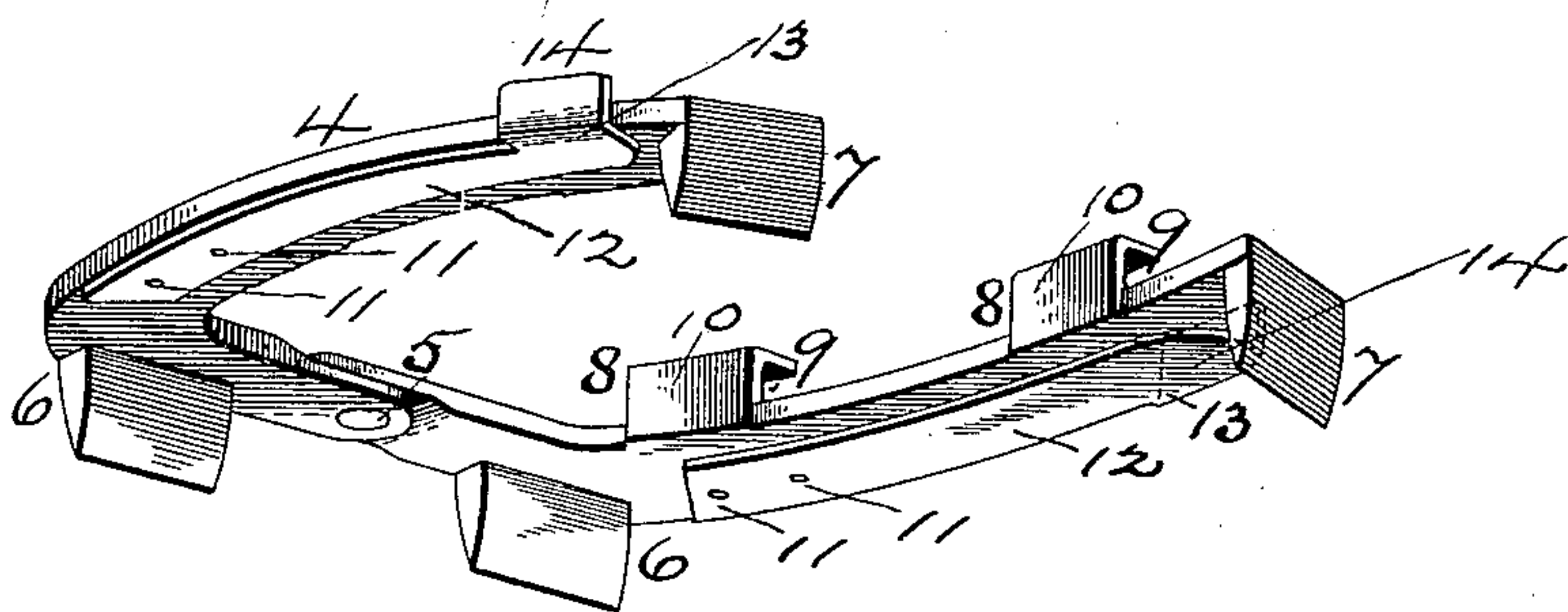


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

PHILIP PITTON, OF CINCINNATI, OHIO.

HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 350,840, dated October 12, 1886.

Application filed August 4, 1886. Serial No. 210,010. (No model.)

To all whom it may concern:

Be it known that I, PHILIP PITTON, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Horseshoes; and I do hereby 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.

This invention relates to that class of horseshoes designed for use in slippery weather; and it consists of an attachment in the form of a supplemental shoe for application to horseshoes of ordinary construction. The attachment consists of a pair of curved bars hinged together at their inner ends and having on their under sides pointed heel and toe calks, on their inner edges upwardly and inwardly extending or hook-shaped lugs or flanges to grip the inner edges and upper face of the shoe, and spring-plates riveted at their inner ends to said bars and having at their outer ends a right-angled lip or extension to extend across and grip the outer edges of said bars and the shoe, all as hereinafter set forth.

In the accompanying drawings, Figure 1 represents a perspective view, viewed from the under side, of an ordinary horseshoe with my improved attachment in position thereon. Fig. 2 represents a perspective view of the attachment separately.

1 represents a horseshoe of ordinary construction, having the customary heel-calks, 2, and toe-calk 3.

4 4 represent the supplemental shoe, which consists of a pair of curved bars hinged together at their inner curved ends or toe portion, as represented at 5. Each of these hinged bars has at its toe portion a sharp or pointed calk, 6, and at its heel portion another sharp or pointed calk, 7, said calks serving to afford a secure footing to the horse when traveling over ice or slippery roadways and prevent his slipping. These calks are in the drawings shown as of equal width to the width of the hinged bars and of the shoe to which said bars are attached, and of semi-elliptical form in cross-section; but I do not confine myself to the precise shape of the calks shown, as the shape thereof may be modified without departing from the nature of my invention.

8 represents upwardly and outwardly extending lugs, formed on and extending from the inner edge of each hinged bar 4, at or near the heel and toe portions, respectively, the hook-shaped upper portion, 9, of said lugs, when the hinged bars 4 are in position on the shoe 1, extending over and gripping a portion of the upper face of said shoe, the vertical portion 10 of said lugs 8 being of a length corresponding with the thickness of the shoe 1 and resting against the inner edge thereof. These lugs thus embrace the inner edges of the shoe 1 and clamp it and the hinged bars 4, forming the supplemental shoe, together at their inner edges and prevent the outward movement or spreading apart of said hinged bars when placed in position on a shoe 1. In order to securely clamp the said bars 4 to the shoe and prevent their inward movement when in position on the shoe 1, I rivet, as represented at 11 11, to the under face of each of said bars, and near the toe or forward portion thereof, a curved flat plate-spring, 12, the rear portion of which is curved outwardly, as shown at 13, and from thence extends upwardly at a right angle to the body of the spring to form a lip, 14, which springs over and embraces the outer edges of said bars 4 and shoe 1, and, gripping them, thereby holds them securely together.

My improved supplemental shoe or calk-bars is designed for ready and easy application to an ordinary shoe while the latter is upon the horse's foot, and without removing the shoe or interfering in any way therewith. By reason of the hinge 5 the bars 4 can be spread apart or drawn inward to adapt them for application to shoes of different widths. While I have in the drawings shown the several calks and also the hook-shaped lugs on the inner edges of the bars 4 as formed integrally with the said hinged bars, it is manifest that either or each of said calks and lugs may be formed separately from said bars and attached thereto by rivets, screws, or analogous means without departing from my invention.

In order to apply my improved supplemental shoe or calk-bar to an ordinary shoe 1 while the latter is on a horse's foot, all that is necessary is to raise the horse's foot, place the toe or hinged portion of the bars 4 against the toe-calk of the shoe, and then push the bars outward, whereupon the hooked lugs will em-

brace and grip the inner edges and upper face of the shoe, and the spring-lip will spring over and grip the outer edges of the bars 4 and shoe 1.

5 To remove the supplemental ice-shoe or bars 4, all that is necessary is to push the lip 14 of the plate-spring 12, attached to one of the bars 4, up so as to raise it above the shoe 1, and then press the bar inward. This act will re-
10 lease one of the hinged bars from the shoe 1, whereupon a similar act will release the other bar from the other side of the shoe, and the supplemental shoe will thus be entirely re-
moved from the shoe 1.

15 Having thus described my invention, what I claim is—

A supplemental ice-shoe for attachment to

ordinary horse-shoes, consisting of a pair of hinged bars having toe and heel calks, hook-shaped lugs on the inner edges of said bars to 20 embrace and grip the inner edges and top face of the shoe, and a pair of plate-springs secured at their inner or front ends to said bars and each having an outwardly and upwardly extending lip to embrace and grip the outer edges 25 of the hinged bars and main shoe, substantially as and for the purpose set forth.

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

PHILIP PITTON.

Witnesses:

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ADOLPH G. PITTON.