

No. 886,939.

PATENTED MAY 5. 1908.

J. G. BURNS.
HORSESHOE.

APPLICATION FILED JUNE 20, 1907.

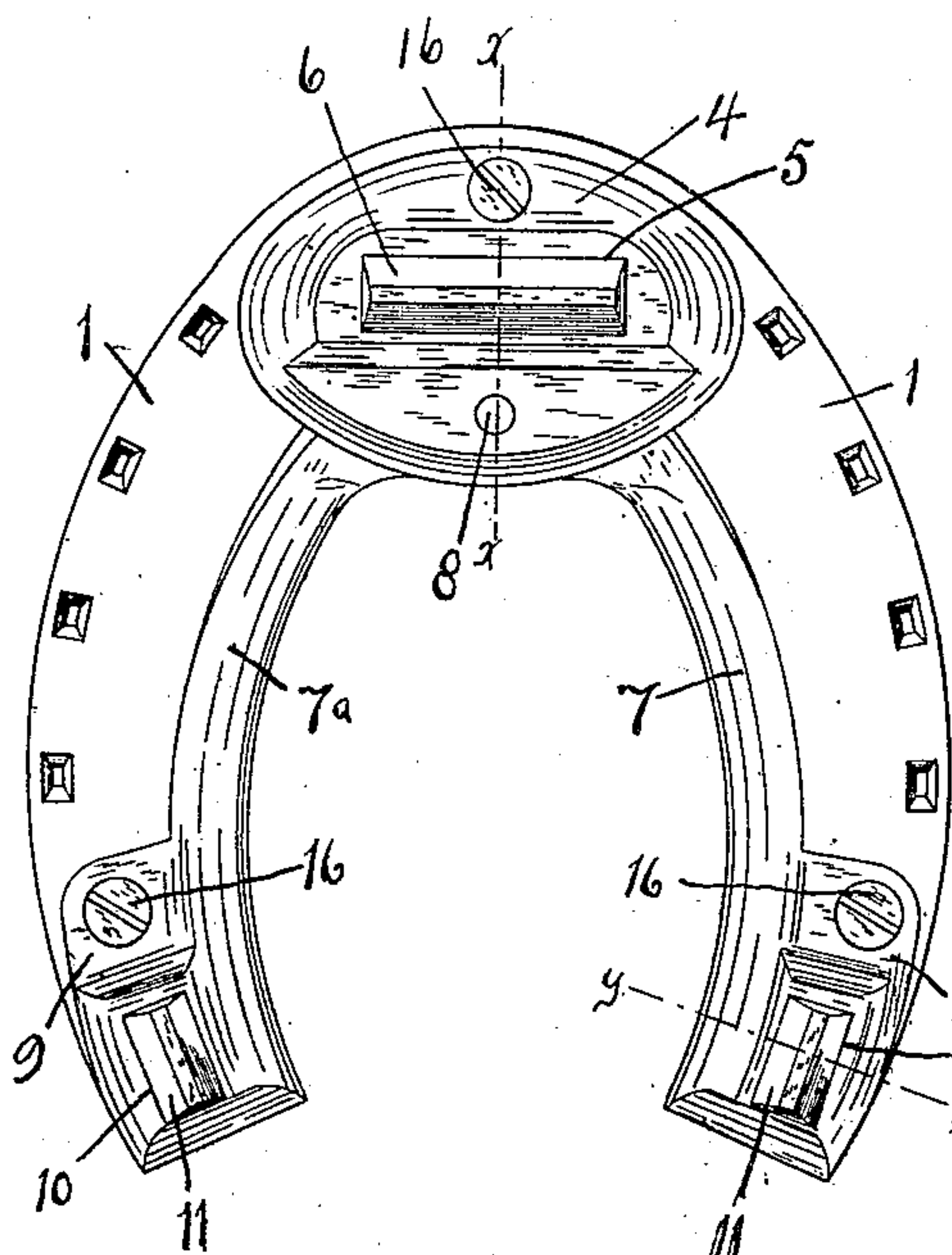


Fig. 1

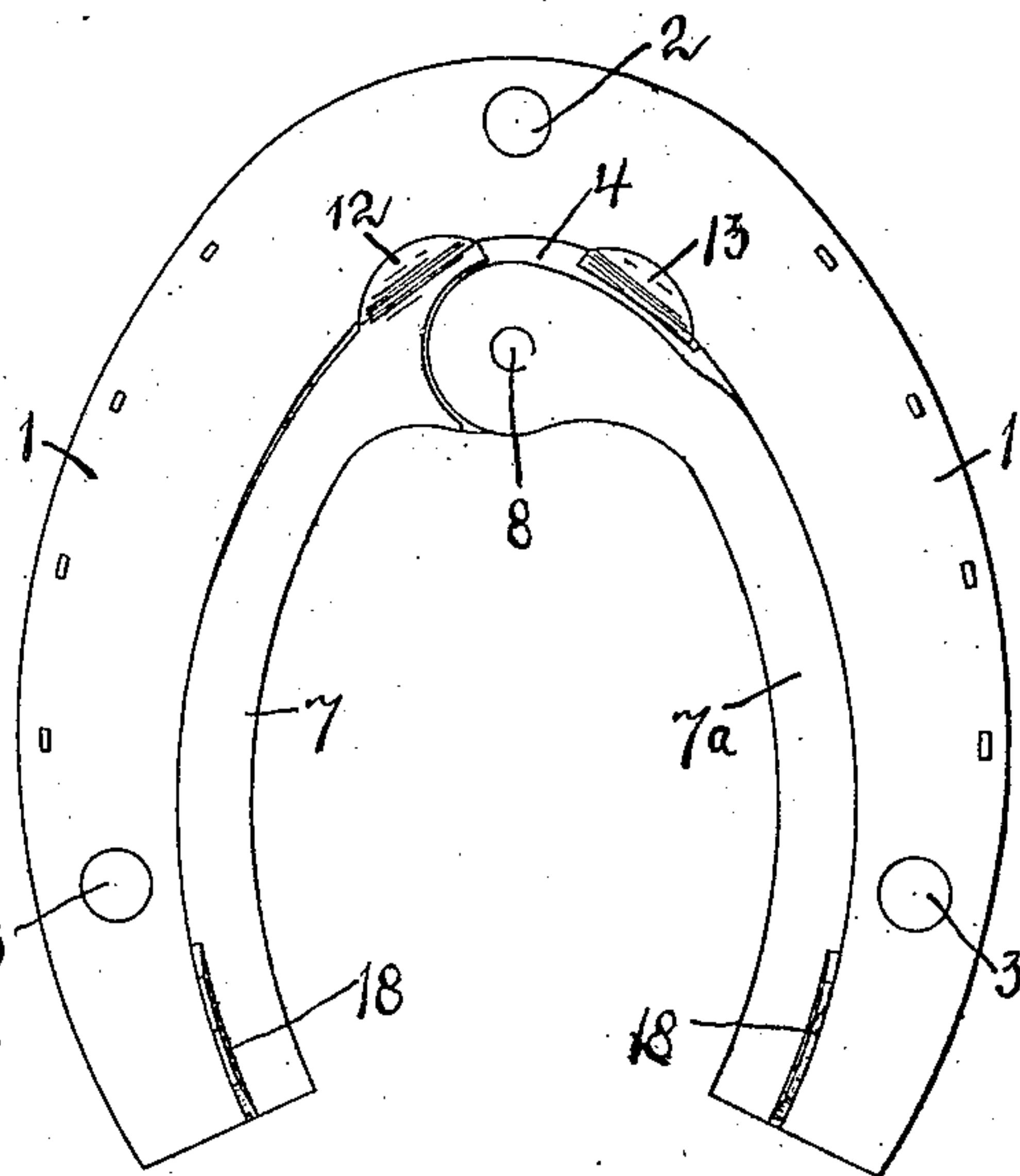


Fig. 2

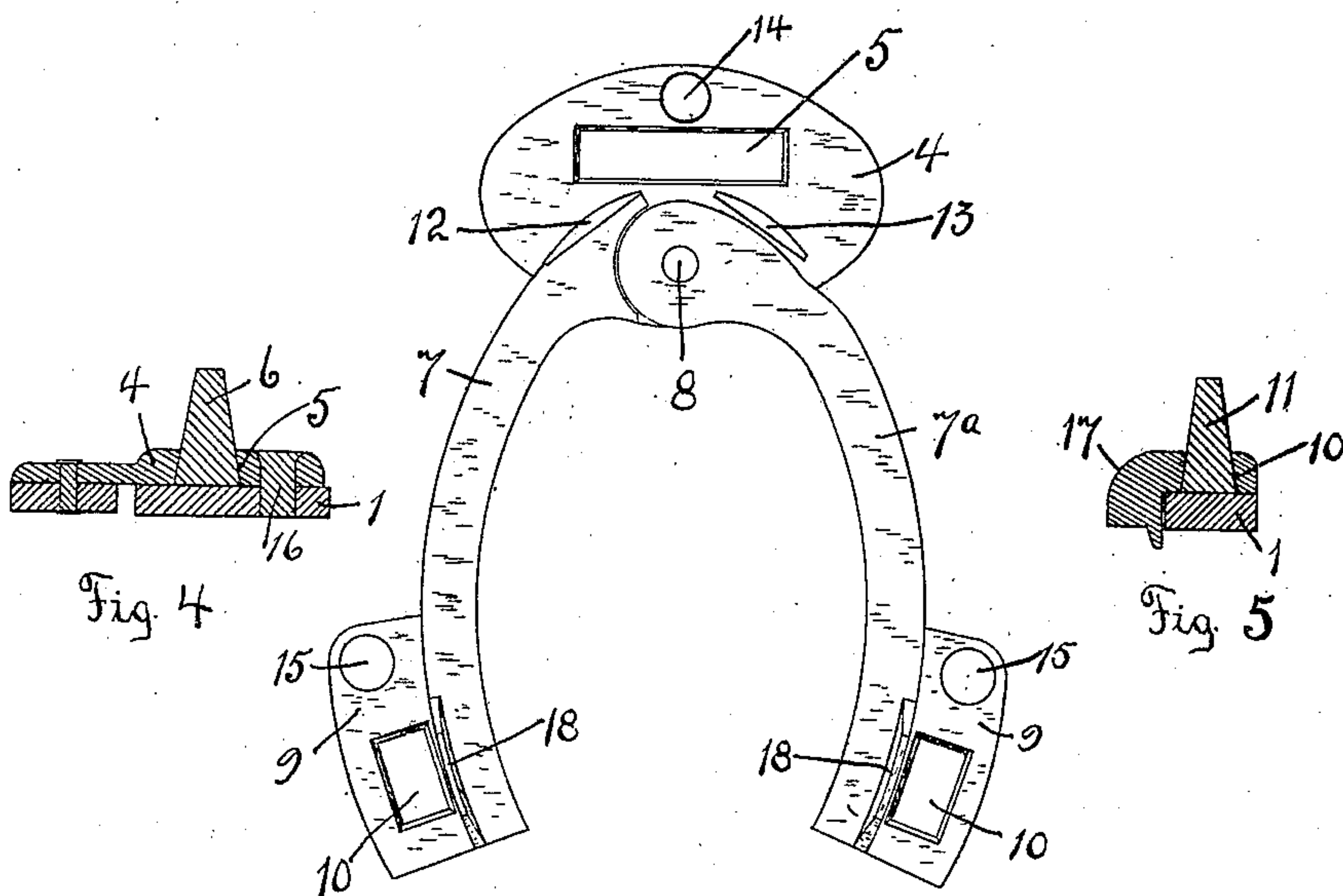


Fig. 3

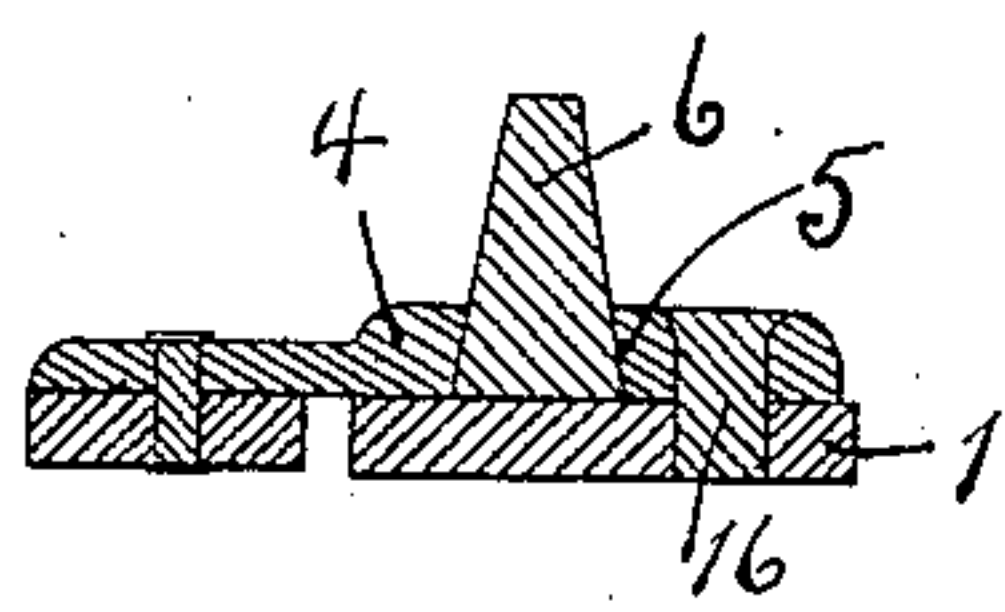


Fig. 4

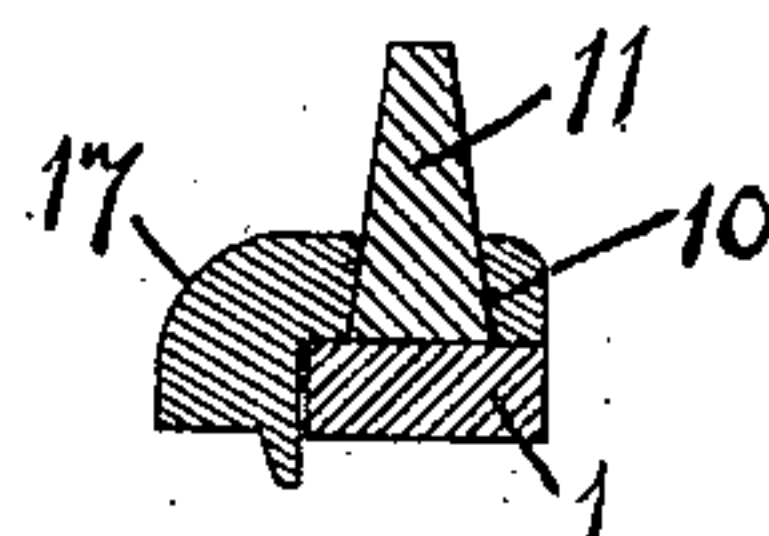


Fig. 5

WITNESSES
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HORSESHOE.

No. 886,939.

Specification of Letters Patent.

Patented May 5, 1908.

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To all whom it may concern:

Be it known that I, JOHN G. BURNS, citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, 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 it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in horse-shoes and more particularly to improved toe and heel-calk attachments.

The object of my invention is to provide an adjustable frame, adapted for removable attachment to the shoe proper, in which separate toe and heel-calks are insertible.

To that end my invention consists of a certain arrangement and combination of parts, all of which will be particularly hereinafter described and claimed.

In the drawings, Figure 1 is an underside view of my improved shoe. Fig. 2 is an upperside view of the same. Fig. 3 is a similar view of the adjustable frame detached. Fig. 4 is a section of Fig. 1, taken in the line $x-x$. Fig. 5 is a section of Fig. 1, taken in the line $y-y$.

Referring to the drawings, 1 is the shoe proper, having the screw-threaded sockets 2 at the toe and 3, 3, at the heel.

My improved adjustable and removable frame for carrying the separate calks is constructed and arranged as follows. 4 is the toe-plate of oval configuration, provided with the elongated socket 5, centrally arranged in the toe-plate 4, its walls being preferably made tapering, as shown. 6 is the toe-calk, with its sides preferably tapering to correspond with the tapering walls of its socket 5. 7 is a curved arm integral with the toe-plate 4 and 7^a is a similar curved arm, which is pivoted at 8 to the toe-plate 4, so that the arms may be adjustable to and from each other. Their outer ends are each provided with an angular extension or heel-plate 9, provided with a tapering socket 10,

adapted for the removable reception of a heel-calk 11, with tapering sides, as shown. 12 and 13 are turned-over lips on the toe-plate 4, see Fig. 2. These lips are cast integral with their supports, as shown in Fig. 3 and turned over after casting, as shown in Fig. 2.

The toe-plate 4 has the orifice 14 and the heel-plates 9, 9, the orifices 15, 15, for the passage of the screws 16, which engage with the sockets 2, 3, 3, in the shoe proper, in removably securing the frame thereto. The arms 7, 7^a, as shown in Figs. 1 and 2, lie snugly against the inner side walls of the shoe proper and the bottom of the hoof, their exposed sides being rounded, as at 17, see Fig. 5. This provision effectually prevents the formation of a ball under the frog of the hoof. The lips 12 and 13 extend between the shoe proper and the hoof and serve to prevent undue strain on the fastening screw 16 and in the absence of such screw, they would hold the forward end of the frame securely in position, but I prefer the additional security of the screw. The lugs 18, 18, adjacent to the heel-plates 9, 9, are adapted to enter grooves in the hoof, to counteract side strain on the arms 7, 7^a.

It will be seen that, with my improved construction, new calks can be quickly substituted for old and worn-out ones and with ordinary precautions the life of the calk frame can be prolonged indefinitely, as it is only necessary to remove the calks before the wear reaches the frame. The hinging of one of the arms enables the frame to be properly adjusted to fit the varying widths of shoes. Both arms could be hinged if desired, but I prefer one rigid with the toe-plate, for increased durability.

I claim:

The combination with the shoe proper and the separate toe and heel-calks, of a frame consisting of a toe-plate having a tapering socket for the toe-calk, an integral curved arm and a pivoted curved arm, such arms being adjustable to and from each other and adapted to lie against the inner side walls of the shoe proper, heel-plates at the outer ends of the arms provided with tapering sockets for the heel-calks, the toe and heel-plates be-

ing in removable engagement with the shoe proper, the turned-over lips on the toe-plate and the flat elongated lugs at the outer ends of the arms adjacent to and inside of the heel-plates, all combined and operating as and for the purpose stated.

5 In testimony whereof I have signed my

name to this specification, in the presence of two subscribing witnesses.

JOHN G. BURNS.

Witnesses:

A. B. UNDERHILL,
W. T. MILLER.