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Patented Aug. 2, 1910.

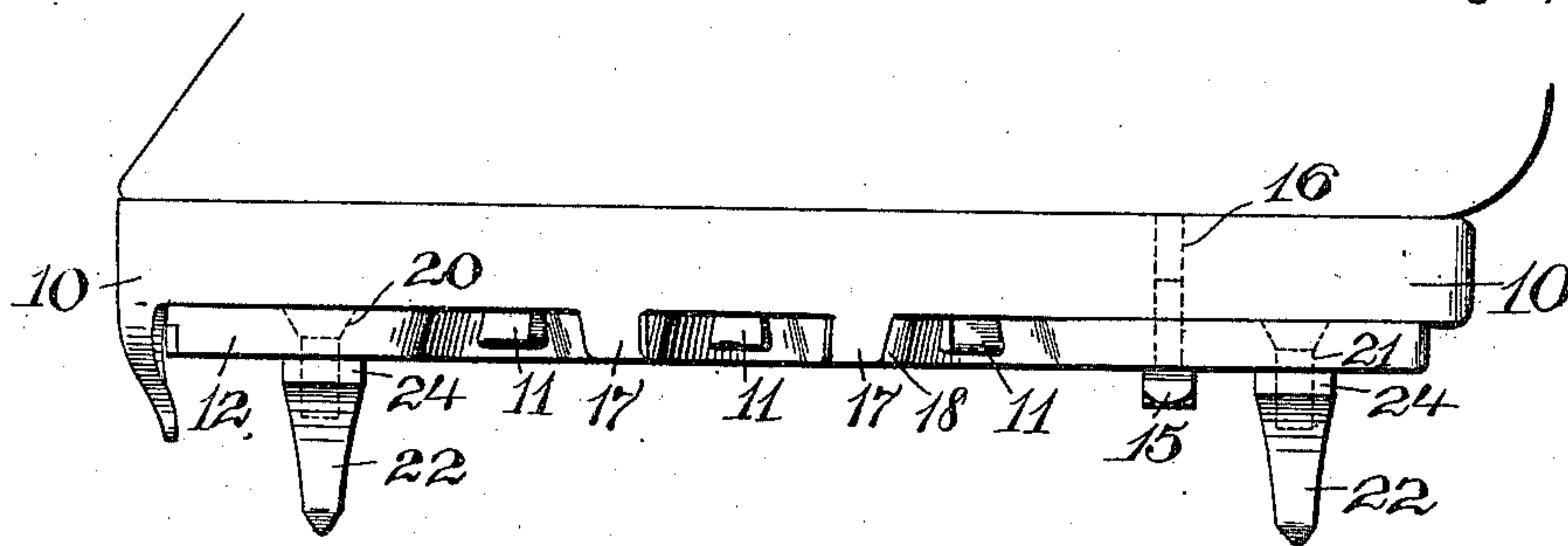


Fig. 1

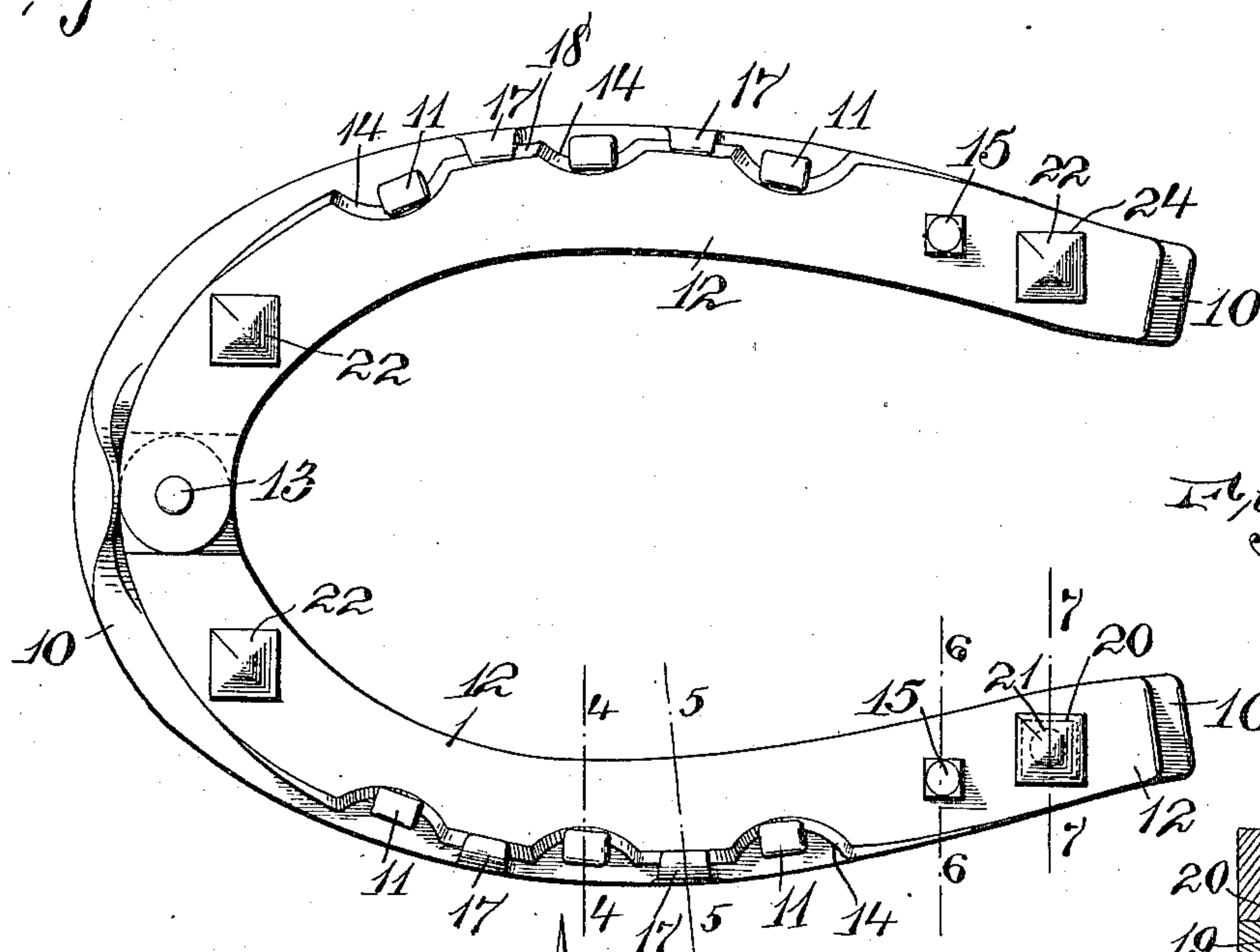


Fig. 2

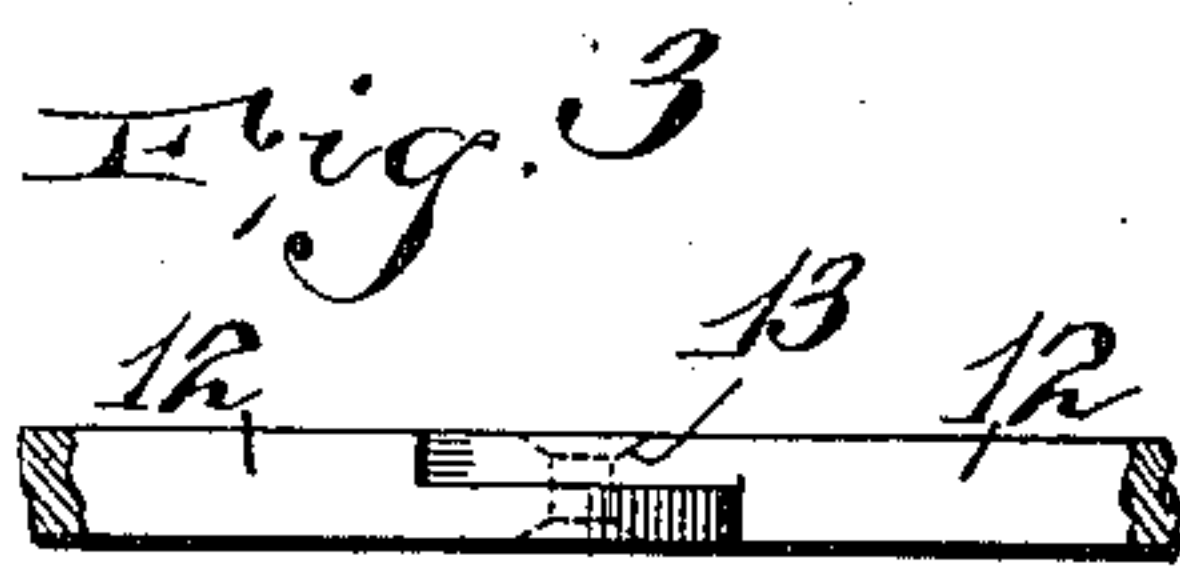


Fig. 3

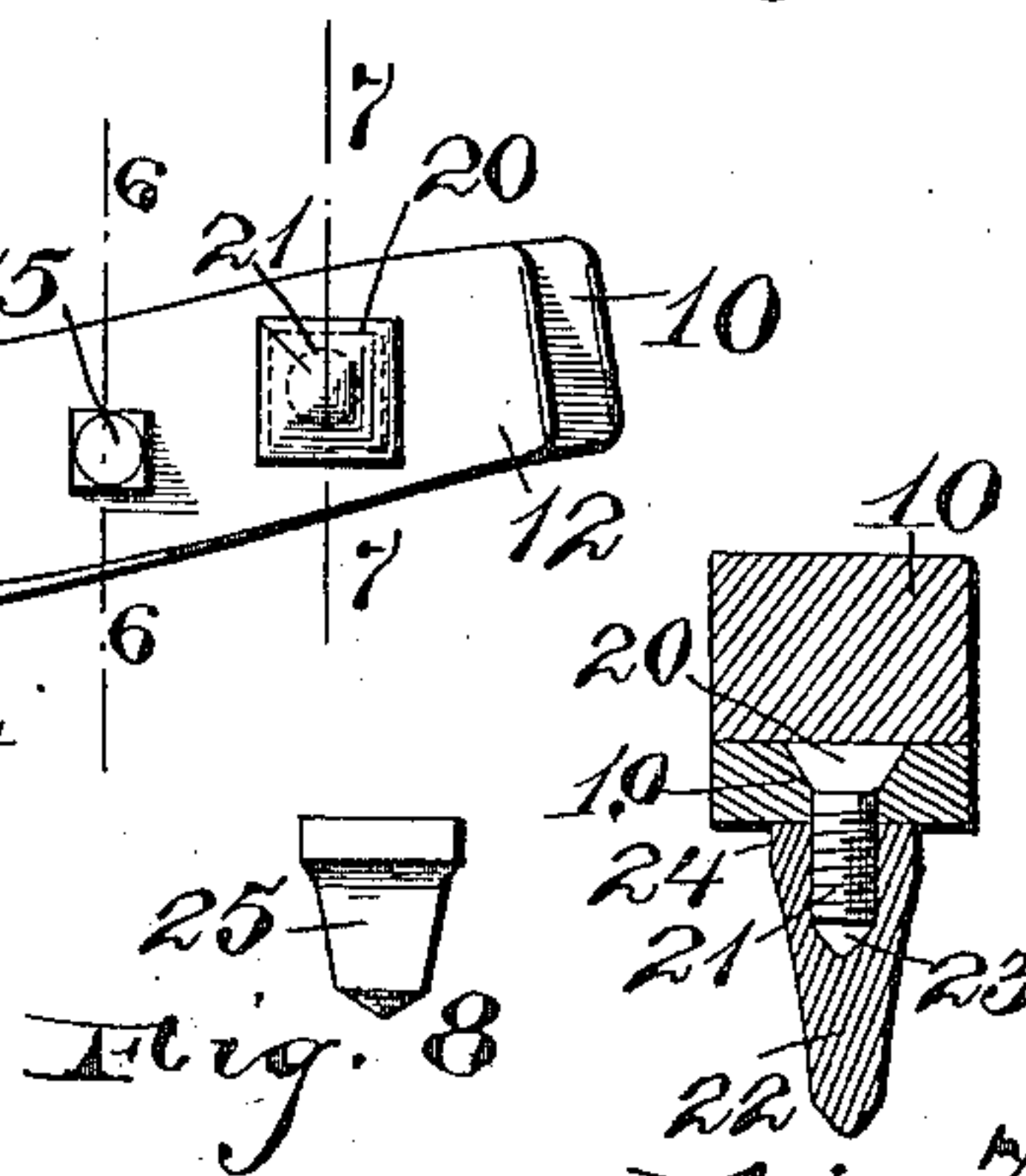


Fig. 8

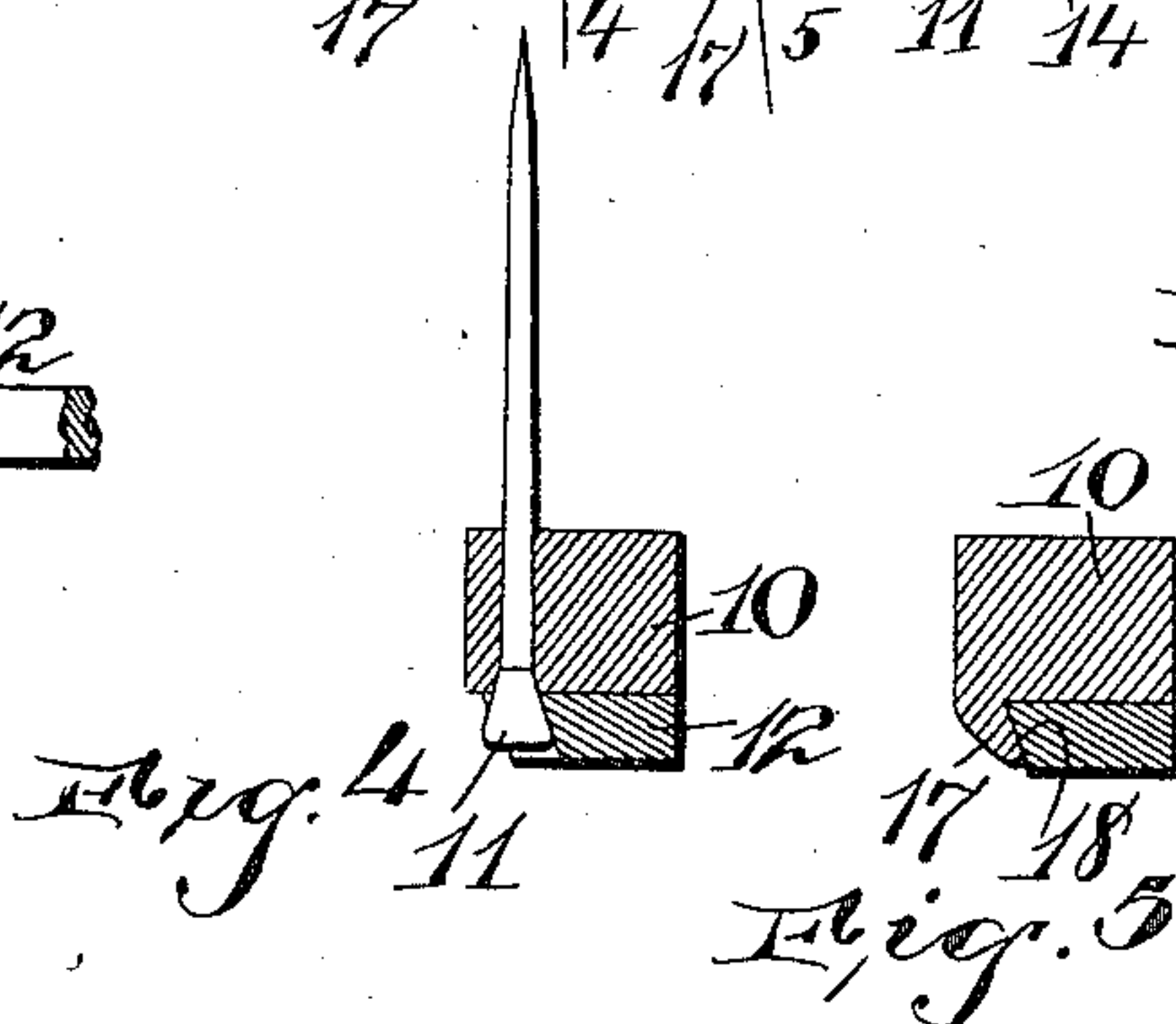


Fig. 4

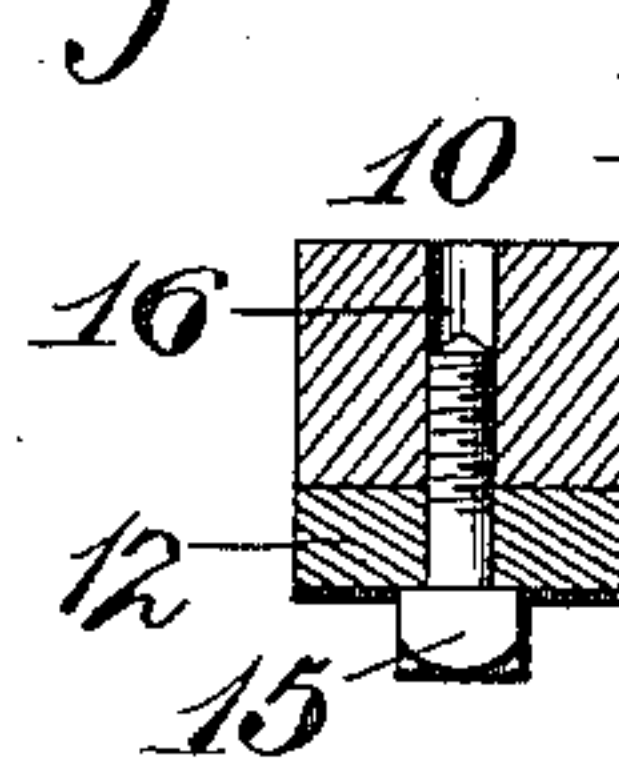


Fig. 6

WITNESSES:

E. A. Bell

M. A. Johnson

INVENTOR

Fletcher Lamerson,

BY

BT
Wm H. Canfield.
ATTORNEYS

~~ATTORNEYS~~

UNITED STATES PATENT OFFICE.

FLETCHER LAMERSON, OF FLANDERS, NEW JERSEY, ASSIGNOR OF ONE-HALF TO
BENJAMIN JOACHIM, OF NEWARK, NEW JERSEY.

HORSESHOE.

966,338.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FLETCHER LAMERSON, a citizen of the United States, residing at Flanders, in the county of Morris and State of New Jersey, 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, reference being had to the accompanying drawings, and to figures of reference marked thereon, which form a part of this specification.

This invention relates to a horse-shoe that is provided with a wearing plate which is detachably secured to the body portion, this wearing plate being hinged at the front and being adapted to be detachably secured by spreading it to engage the clips and the nails of the body portion and to be secured in place by a suitable fastening means.

The invention is further designed to provide the wearing plate with removable calks which are adapted to be removed from the wearing plate if necessary, the calks being of different forms and sizes, and the calks and the wearing plate together being adapted to be removed, when desired, so that in the use of the shoe the body portion itself can be used as a shoe, or the wearing plate can be used underneath the shoe with low or high calks attached, according to the conditions of the road.

The invention is illustrated in the accompanying drawing, in which—

Figure 1 is a side view of the complete horse-shoe made according to my invention, and Fig. 2 is a bottom view of the same. Fig. 3 is an elevation of the hinged end of the wearing plate. Fig. 4 is a section on line 4, 4, in Fig. 2. Figs. 5, 6 and 7 are sections on lines 5, 5, 6, 6, and 7, 7, respectively, in Fig. 2, and Fig. 8 is a side view of a calk used in conjunction with the horse-shoe.

The invention comprises a body portion which is a horse-shoe as made at present and is adapted to be secured to the hoof of the horse by the nails 11, the heads of which project slightly from the shoe. On the bottom of the shoe I place a wearing plate which is preferably made of the two halves 12 which are pivoted at 13, and when placed

in position are held against the shoe and then the two sections are swung apart so that the edges 14 on the outside edges of the wearing plate are engaged by the heads of the nails as shown in Figs. 2 and 4. The sections are held in this position by the bolts 15 which are provided with heads for their manipulation by a wrench or other tool, and are secured in their screw-threaded perforations 16 in the body portion, thus holding the wearing plate in position. I provide the body portion with the clips 17 on the side edges, which clips can be turned over so as to assist in holding the wearing plate in place when its sections are forced apart, the outer edge of each side of the wearing plate being beveled as at 18, as will be evident from Fig. 5. The wearing plate is provided with perforations where calks are to be placed, these perforations having squared countersunk portions 19, into each one of which is adapted to fit the squared head of a screw 21. A calk 22 is provided with a screw-threaded perforation 23 to receive the screw 21, and is further provided with the portion 24 which is substantially rectangular and is adapted to receive a wrench or similar tool so that the calk can be tightened. When the wearing plate is in place, the calks are secured to the screws 21, and I can secure a winter calk, as shown in Figs. 1 and 7, or a shorter calk 25, as shown in Fig. 8, this being governed largely by the condition of the road and the weather.

This shoe can be used as an ordinary horse-shoe; the wearing plate with the calks attached can be quickly attached or detached from the body portion; the calks can be removed with the wearing plate, or the wearing plate can be removed with the calks, then the calks can be removed from the wearing plate and other calks put in place without unnecessary waste of time or effort. If desired the wearing plate can be used on the shoe without calks by removing the calks and the screws 21. The wearing plate can be provided with calks indoors, or at a place removed from the animal, and it can therefore be installed on the horse by simply placing the wearing plate in position, forcing the members of the wearing plate outward to engage the nails 11 and the clips 17, and then tightening the two screws 15 of each shoe in place. It can thus be

seen that the calks can be easily attached by a driver while on the road, and do not require the services of a blacksmith.

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

1. A shoe comprising a body portion, nails passing through the body portion to secure the body portion to the hoof of an animal, the nails having projecting heads, a wearing plate having its outside edges chamfered to engage the heads of the nails, the wearing plate comprising members pivoted at their forward end whereby they can be swung apart, bolts passing through the wearing plate and into the body portion for securing the wearing plate to the body portion, screws projecting from the wearing plate and having means co-acting with the wearing plate for preventing the rotation of the screws, and calks, each calk having a recessed screw-threaded portion to engage a screw projecting from the wearing plate.

2. A shoe comprising a body portion having clips on its side edges, nails passing through the body portion to secure it to a hoof, the nails having projecting heads, a wearing plate comprising swinging members pivoted at their front ends, the members having chamfered edges to engage the heads of the nails and the clips, bolts passing through the wearing plate and into the

body portion, screws projecting from the wearing plate, and calks, each calk being adapted to screw on a screw.

3. A shoe comprising a body portion having clips on its side edges, nails passing through the body portion to secure it to a hoof, the nails having projecting heads, a wearing plate comprising swinging members pivoted at their front ends, the members having chamfered edges to engage the heads of the nails and the clips, bolts passing through the wearing plate and into the body portion, the wearing plate having perforations that are rectangular and countersunk on the face toward the body portion, screws having rectangular heads to fit the countersunk portions of the perforations, the screws having their screw-threaded portions projecting from the wearing plate, and calks, each calk having a screw-threaded recess and having means for engagement by a tool whereby the calk can be secured to a screw.

In testimony, that I claim the foregoing, I have hereunto set my hand this 18th day of October, 1909.

FLETCHER LAMERSON.

Witnesses:

E. A. PELL,

M. A. JOHNSON.