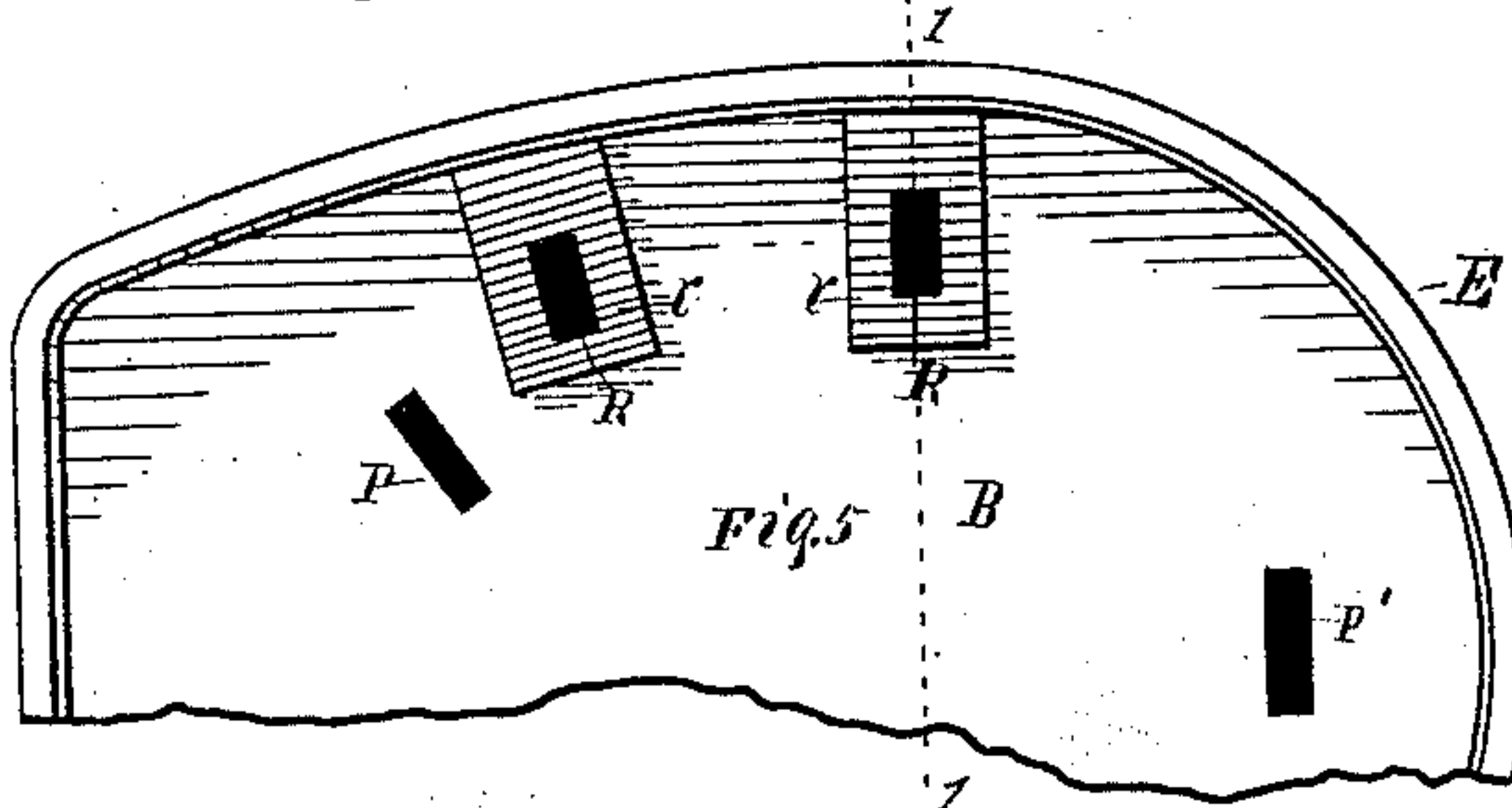
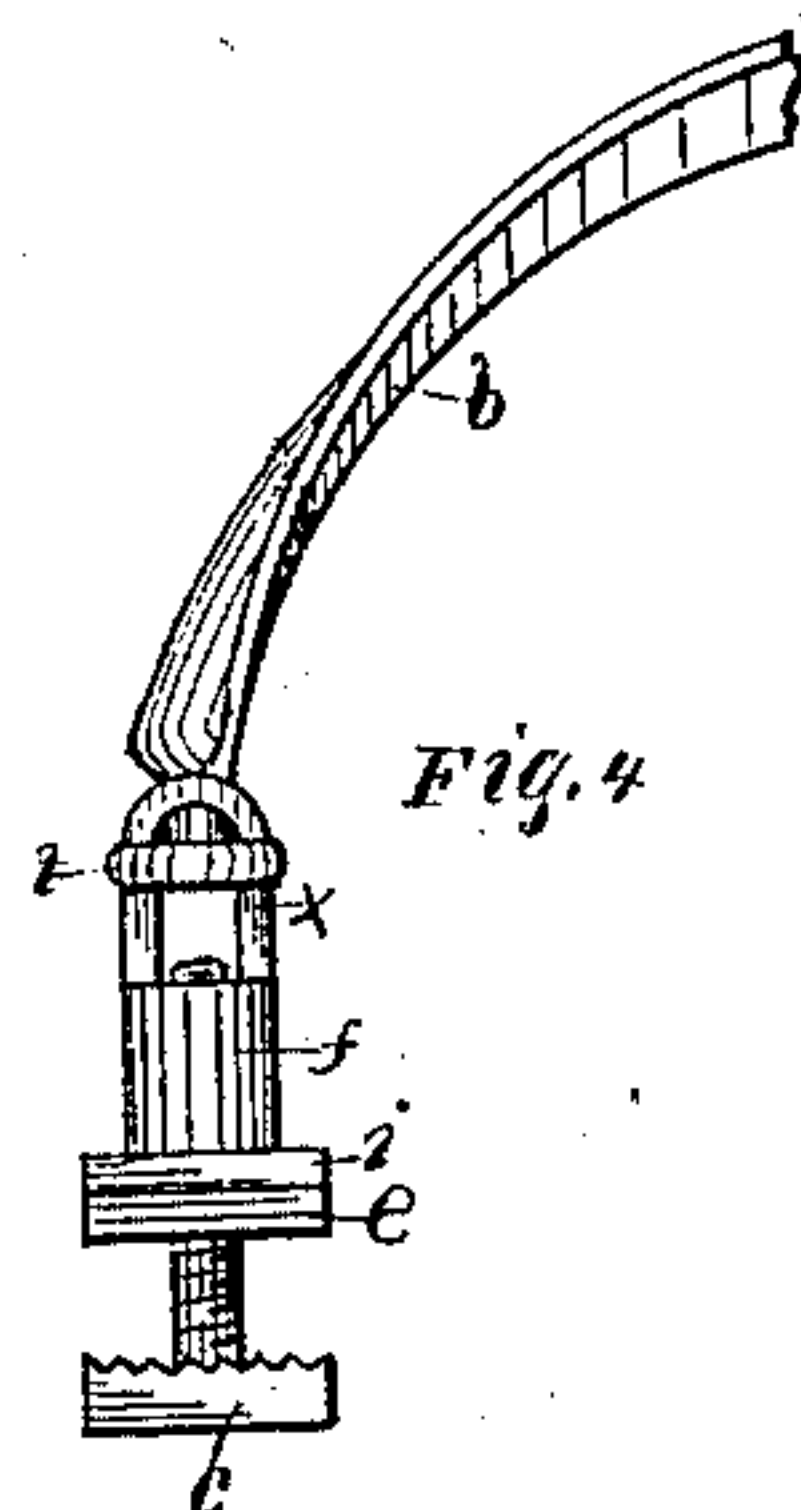
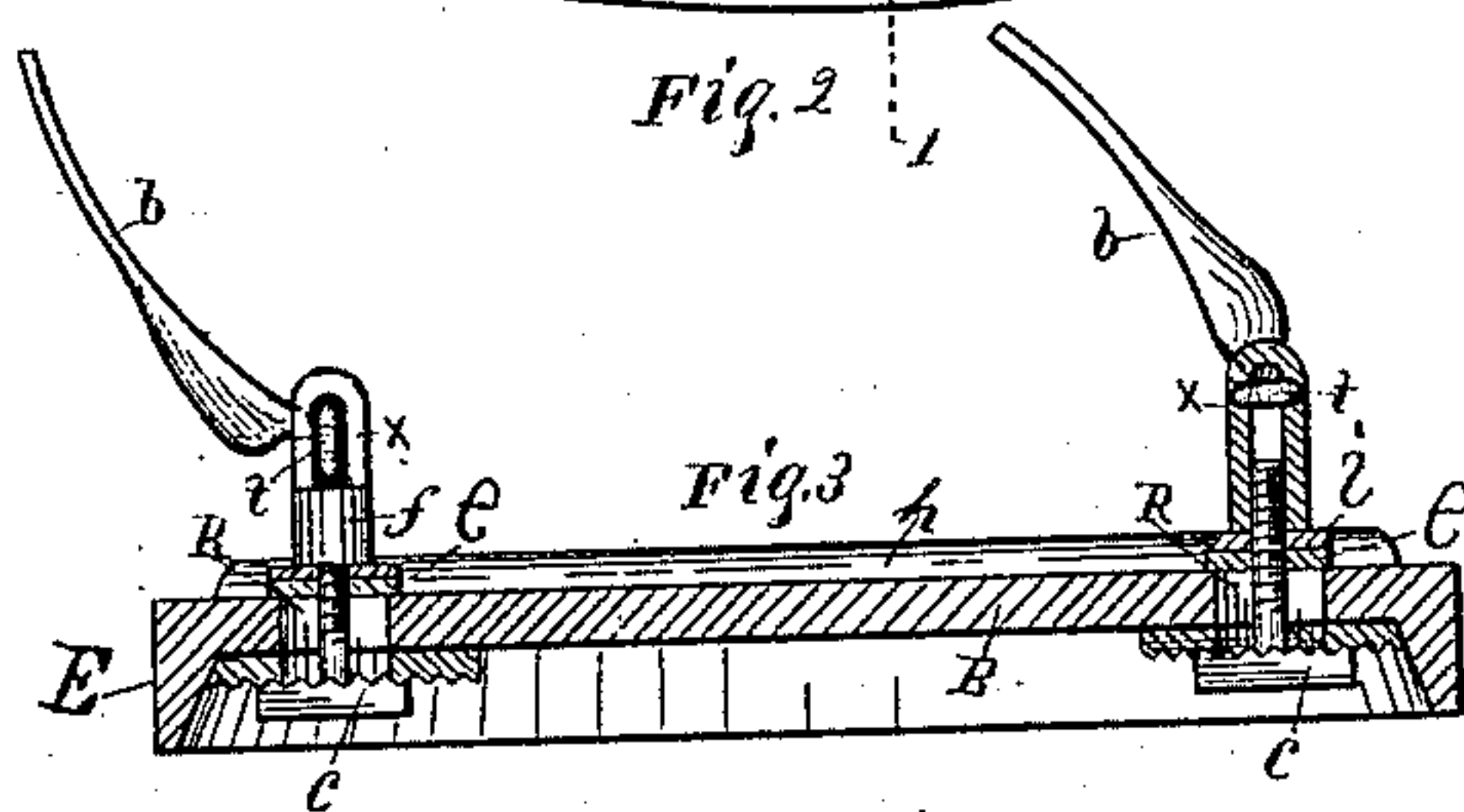
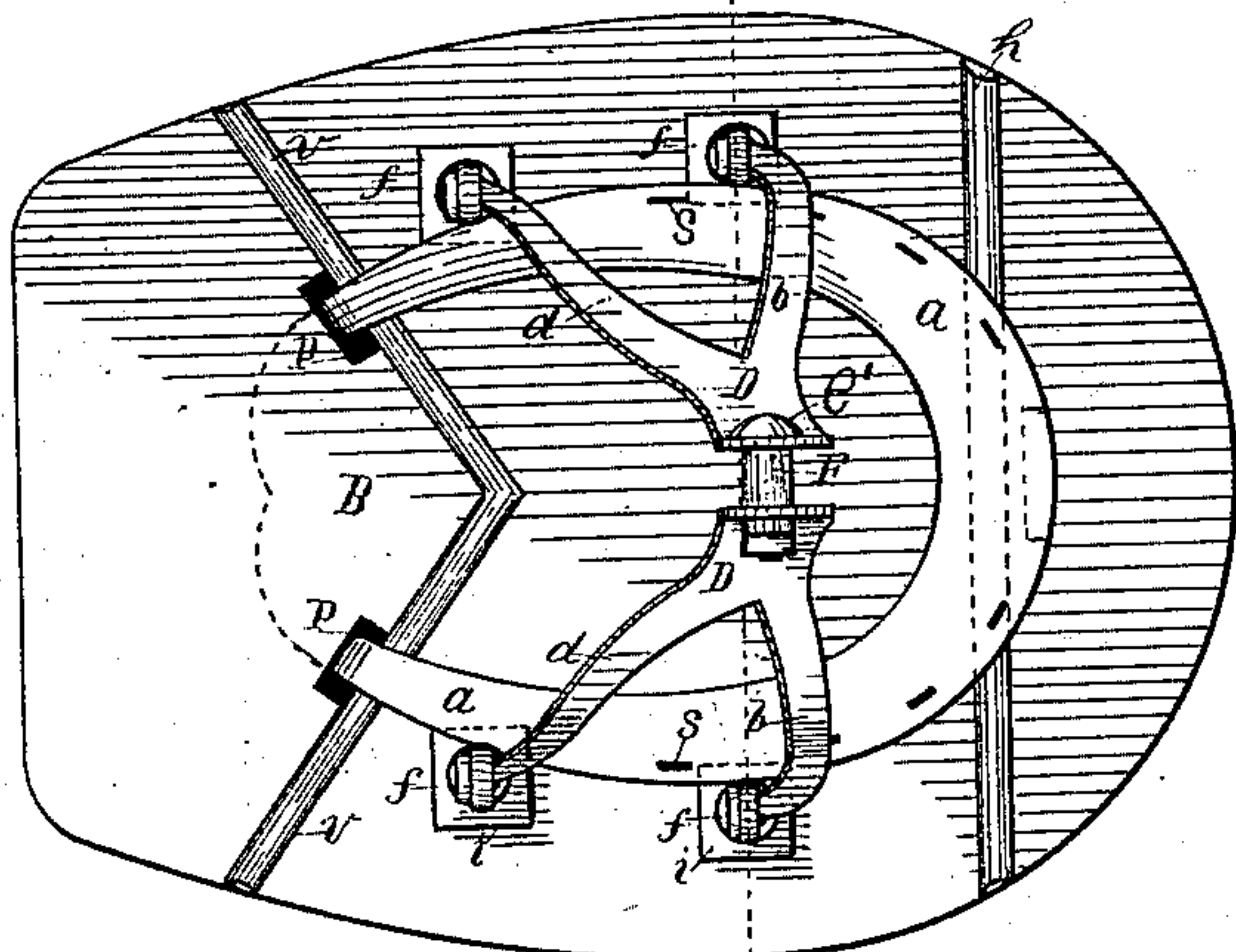
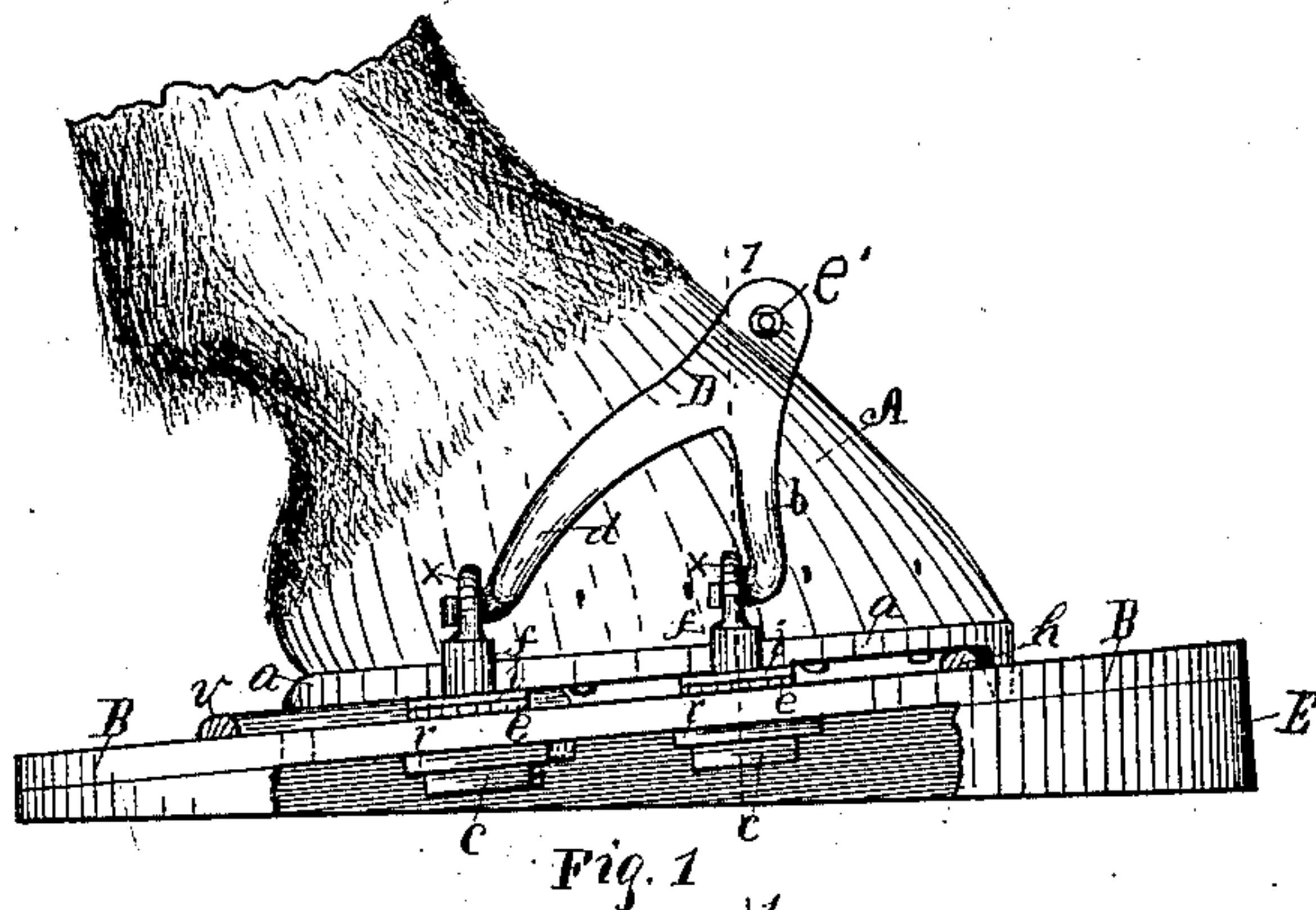


(No Model.)

L. BRIGHAM.  
SOFT GROUND HORSESHOE.

No. 285,562.

Patented Sept. 25, 1883.



Attest.  
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# UNITED STATES PATENT OFFICE.

LYSCOM BRIGHAM, OF ORANGEVILLE MILLS, MICHIGAN.

## SOFT-GROUND HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 285,562, dated September 25, 1883.

Application filed July 28, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, LYSCOM BRIGHAM, a citizen of the United States, residing at Orangeville Mills, county of Barry, State of Michigan, have invented a new and useful Soft-Ground Horseshoe, of which the following is a specification.

My invention consists in certain improvements in this class of horseshoes to facilitate their utility.

In the drawings forming a part of this specification, Figure 1 is a side elevation of the shoe secured to the foot of a horse; Fig. 2, a top view, showing the common calk-shoe in place, with the foot of the horse removed; Fig. 3, a cross-section on line 1 1 in Figs. 1, 2, and 5; Fig. 4, a detached part enlarged; and Fig. 5, a broken portion, looking from the under side.

The shoe B is designed to be made of metal, of light thickness and weight. It is provided with a vertical flange, E, entirely around the edge. The flange is highest at the toe of the shoe. Thus the upper surface of the shoe and the lower edge of the flange are on converging planes toward the heel or rear of the shoe. By this means the horse can better cling to slippery turf and is less liable to slip laterally, and the foot stands in an easy and natural position. The raised ribs *v v* and *h* serve to strengthen the shoe B, thus employing lighter metal, and form rests for the foot, thus obviating the uneven position of the foot caused by the heads of the nails which secure the calk-shoe *a* to the foot.

The bails D D are provided with two straps, *d b*. Thus when the bail is secured over the foot by a bolt, *e'*, said bail cannot work down toward the toe, should the parts work loose, because the front strap, *b*, acts as a brace, holding up the bail. A rubber thimble, F, is located on bolt *e'*, between the upper ends of bails D D, to prevent the bolt *e'* from working loose.

Slots P P and P' are formed through the shoe, Fig. 5, to receive the calks of the shoe *a*. The latter is the size of the toe-calk of shoe *a*, and the latter are longer than the heel-calks and are at oblique angles converging toward the toe of the shoe. Thus feet of different sizes may be easily fitted with the same-sized shoe B, for the variations in length and width

of the foot correspond and conform to the angle of the slots P P at the heel of the foot.

The bails D D are connected with the shoe B by means of eyes *x x* and the hooks *t t* on the lower end of the bail-straps *b d*. These hooks have T ends so located in relation to the eyes *x x* that when a bail is thrown down, as at the left side of Fig. 3, the T will enter the eye, and when the bail is carried up, as at the right-hand side of said figure and in Figs. 1, 2, and 4, the T will be crosswise of the eye, thus preventing it from unhooking. The base part *f* of the eye *x* is internally threaded to receive the threaded bolt *c*, which is located through the slots R R of the shoe B. These slots R R are longer than the diameter of the bolt *c*, thus enabling a lateral adjustment of the eyes *x x* in accordance with the size of the foot. Said slots R R are surrounded on the under side of the shoe B by plates *r r*, having serrations adapted to receive the serrations on the upper face of the heads of the bolts *c*, Figs. 3 and 4. Thus the parts are held from slipping at different points of location of the eyes.

On the upper side of the shoe B, above the slots R, is located, on bolt *c*, metal nut *i*, and rubber washer *e*, between the shoe and nut, preventing by its elasticity said nut from working loose. The rubber washer *e* may be used or not, according to the needs in different constructions.

In adjusting the eyes *x x* and securing them in position said eyes, with their base portions *f*, act as thumb-nuts on the bolts *c*, which nuts may be manipulated by hand before the bail-hooks are connected with the eyes. The lower ends of the straps *b d* above the hooks are thickened up in a manner to extend over the eye *x* and protect it from the other foot of the horse, should the horse interfere, Fig. 4.

Having thus described my invention, what I claim is—

1. The combination of the shoe, the bails, the bolt for connecting the bails over the foot, and the rubber thimble on said bolt, between the upper ends of the bails, substantially as set forth.

2. The combination, with the shoe having the side slots to receive the eyebolts, and the serrated plates around said slots, of the bails having the double straps, the eyes adapted to re-



ceive the hooks of said bails, the bolts having the serrated heads, and the securing-nut and rubber washer, all substantially as set forth.

3. The shoe having the side slots with serrated surfaces around them on the under side, in combination with the bail, the eyes adapted to receive the hooks of said bail, the bolts having the serrated head, and the securing-nut, substantially as described.

4. The combination, with the shoe adapted to fit the calk-shoe of a horse, and provided with eyes on the sides vertically elongated, of the bail having the straps terminating in T ends adapted to enter said eyes, substantially as specified and shown.

5. A soft-ground horseshoe provided with a pendent flange around the edge, made wider at the toe and tapering toward the heel, substantially as set forth.

6. The combination, with the shoe having the side slots with the serrated surface around them, the vertically-elongated eyes, the bolts having the serrated heads, and the securing-nuts, of the double-strapped bail terminating in the T ends adapted to enter said eyes, all substantially as described.

7. The combination, with the shoe and eyes for connecting the bails therewith, of the bails having the thickened portion at the lower end, forming a guard to said eyes, substantially as specified.

In testimony of the foregoing I have hereunto subscribed my name in the presence of two witnesses.

LYSCOM BRIGHAM.

Witnesses:

JNO. C. PERKINS,

CHARLES O. JOHNSON.