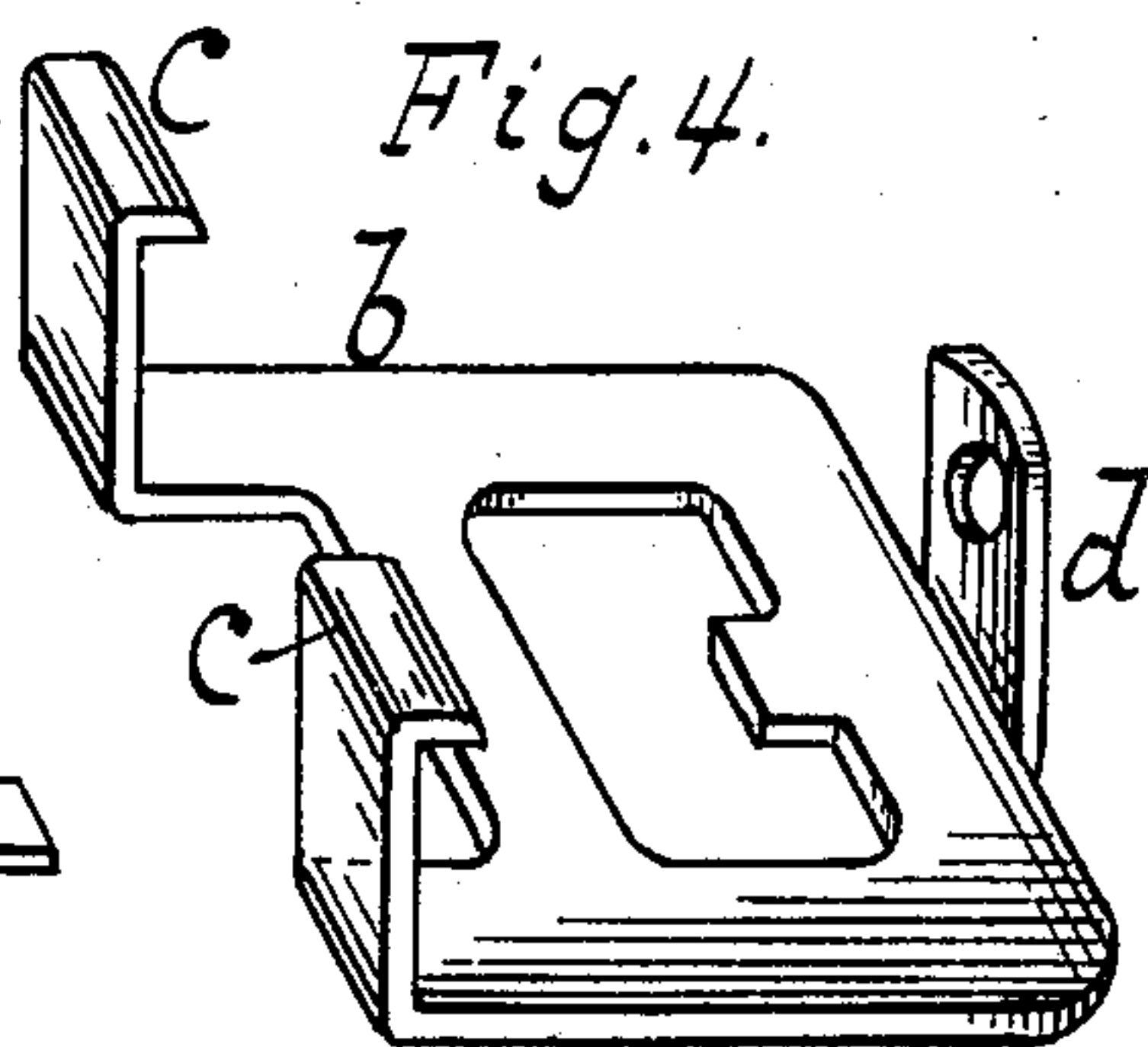
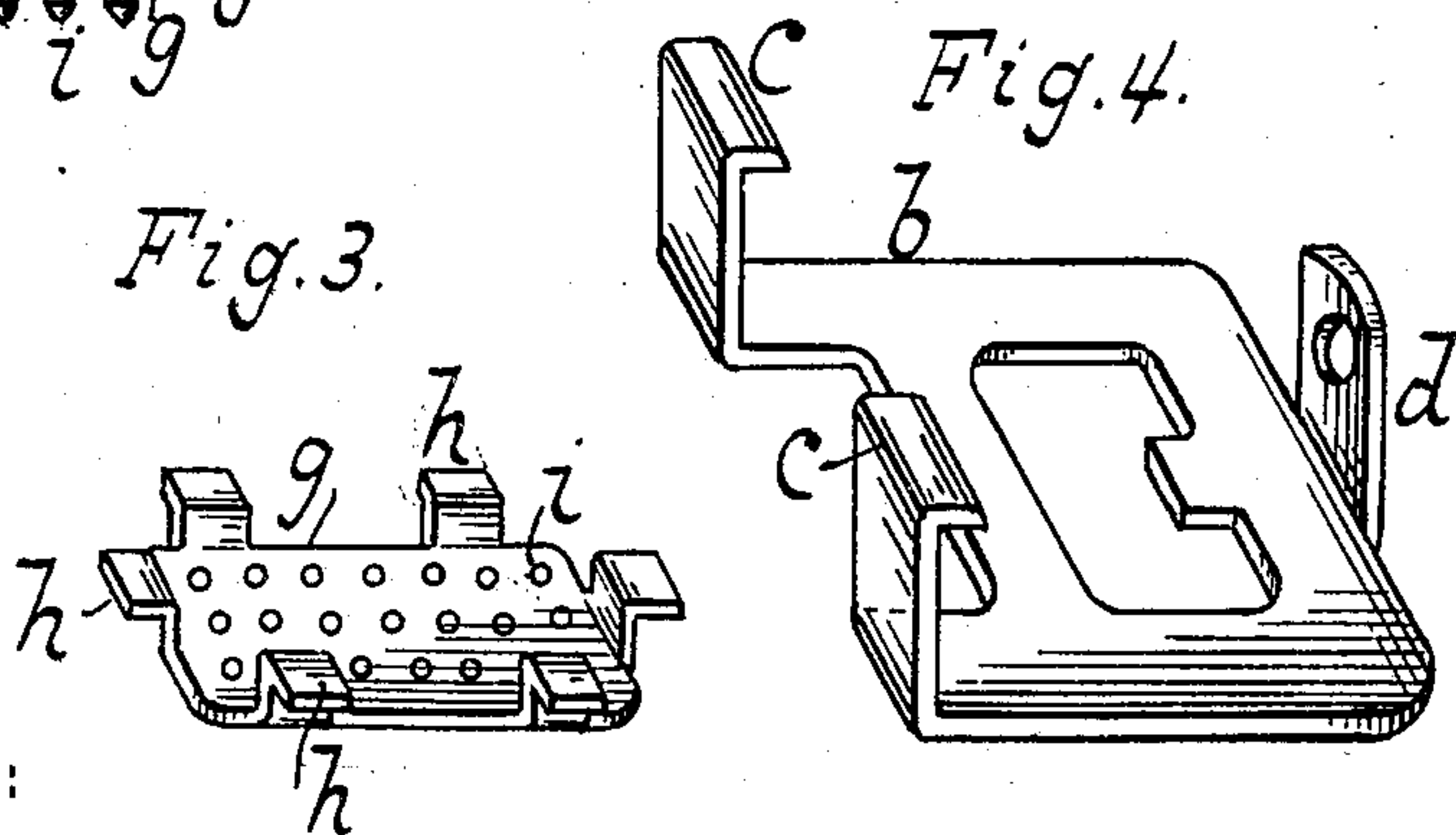
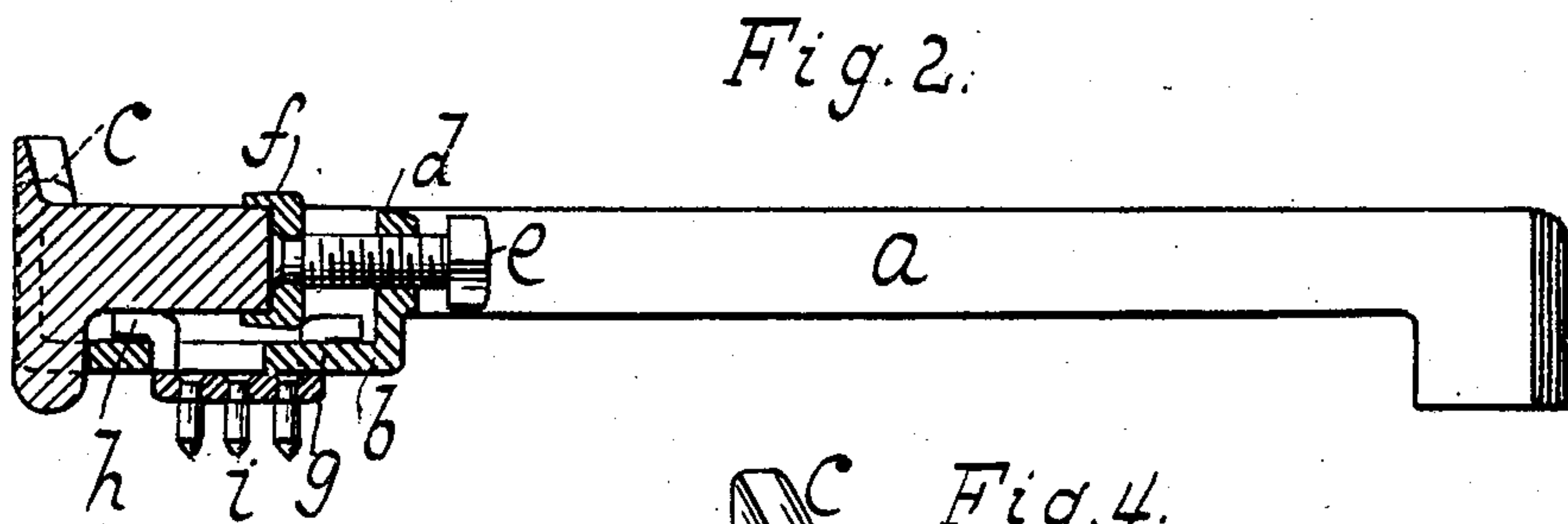
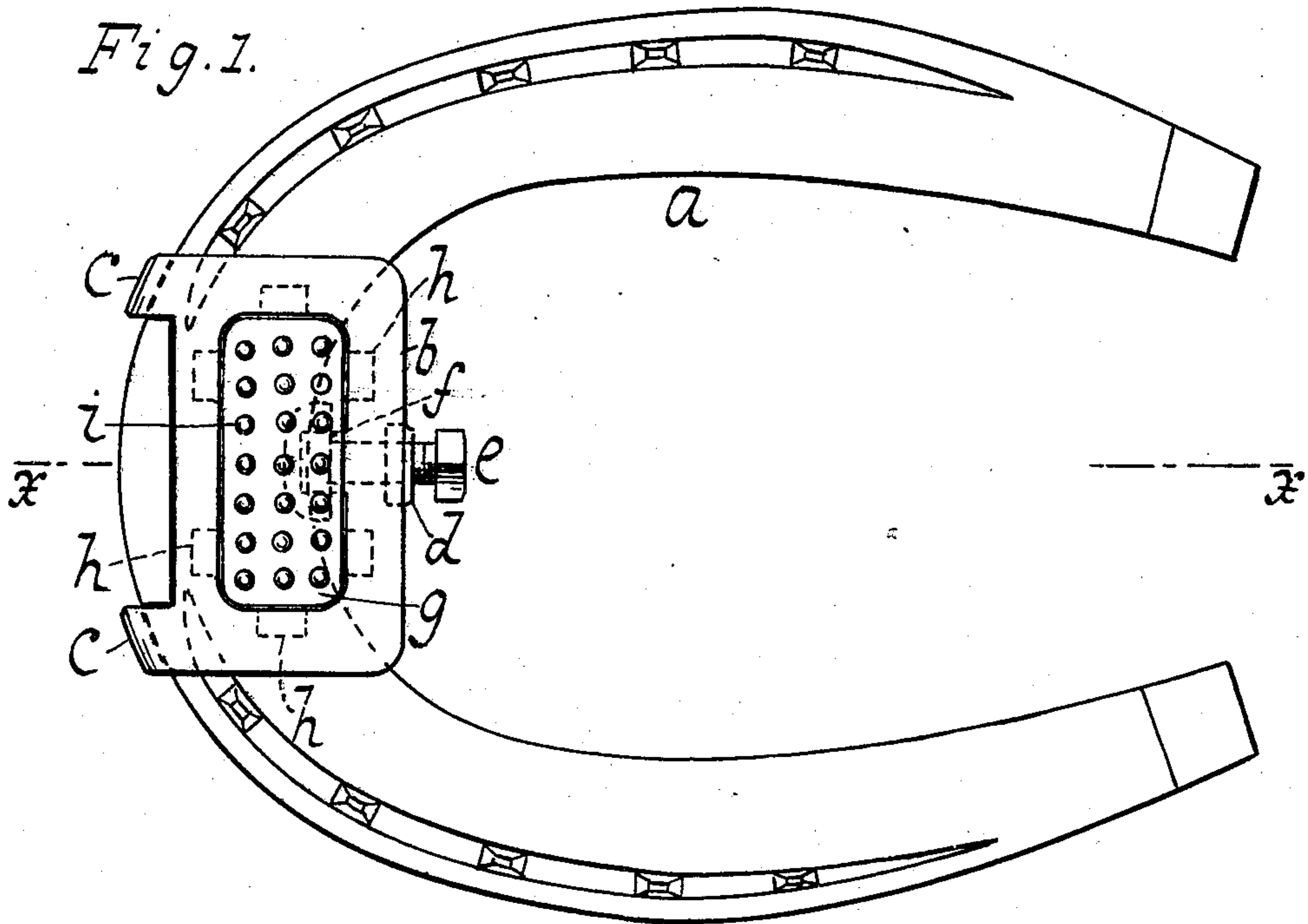


No. 887,739.

PATENTED MAY 12, 1908.

J. E. HARRISON.
HORSESHOE ATTACHMENT.
APPLICATION FILED DEC. 4, 1907.



WITNESSES:
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HORSESHOE ATTACHMENT.

No. 887,739.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed December 4, 1907. Serial No. 405,038.

To all whom it may concern:

Be it known that I, JAMES EDWARD HARRISON, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Horseshoe Attachments, of which the following is a specification.

This invention relates to a horse shoe attachment which is inexpensive and can be readily attached to the toe portion of the shoe.

The novel features of construction are set forth in the following specification and claims and illustrated in the annexed drawing in which:—

Figure 1 is an inverted plan view of a horse shoe embodying this invention. Fig. 2 is a vertical longitudinal section along the line *xx* of the same. Fig. 3 is a perspective view of a calk plate. Fig. 4 is a perspective view of a frame.

The toe calk attachment is clamped to the inner and outer rim of an ordinary horseshoe and the adjusting screw and the frame and calk plate does not interfere or come into contact with the frog of the animal.

The toe calk plate is securely clamped between the frame and the lower face of the shoe and the projections or spikes thereof grip the ground or ice to give the animal firm hold and prevent slipping.

In this drawing the letter *a* designates a horseshoe which is of ordinary construction. This horseshoe is provided with a frame *b* whose forward portion is bifurcated to form arm members adapted to fit closely on each side of the calk of the shoe and having hooks *c c* to straddle the clip of said shoe. These hooks grip over the top of the shoe and the arm members are shaped to embrace the front portion of said shoe. The rear portion of this frame is bent upward to form a lug or ear *d* having a tapped part near its upper end.

A set screw *e* engages the tapped part of the frame and said screw is provided with a clamp *f* at its front end to engage the inner rim and portions of the top and bottom of the shoe. This clamp is mounted loosely on the stem of the screw and hence when the screw is rotated to clamp the frame the said clamp remains stationary or does not revolve with the screw.

A calk plate is shown at *g* and it comprises a plate having straps or projecting parts *h* adapted to rest on the frame and when the said frame is in its proper position on the shoe as shown the straps will be clamped between the shoe and the frame thus preventing lateral and vertical displacement of said plate. The calk plate is fitted within an opening in the frame and the straps project upward and engage the sides of the opening. A calk plate thus constructed can be moved from the frame when the projections or the spikes *i* become worn and a new plate readily substituted. It will be readily seen that when the set screw is tightened it jams the clamp against the inner rim of the shoe and the arms grip the front rim of the shoe and thereby clamp the frame securely in place.

The calk plate when in place covers the opening in the frame and the straps of said plate fit snugly in the opening and are bent to catch over the top and rest on the frame.

The plate with its calk being on the bottom and outside of the frame comes into contact with the ground and prevents injury to the frame. The calk plate is constructed from a plate of steel and drop forged to the shape down. The frame is likewise constructed of steel forged and punched to the shape down.

What I claim is:—

A horseshoe attachment comprising a frame whose forward portion is bifurcated to fit the toe calk of a shoe and arm members with hook portions to embrace the front rim and straddle the clip and grip the top of said shoe, said frame having a lug adapted to contact with a set screw having a swivel clamp to engage the inner rim of the shoe and said frame having an open portion, and a calk plate adapted to cover the open portion and provided with strap portions to engage the opening and catch over the top of the frame.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

JAMES EDWARD HARRISON.

Witnesses:

CHRISTIAN ALMSTAEDT,
EDWARD WIESNER.