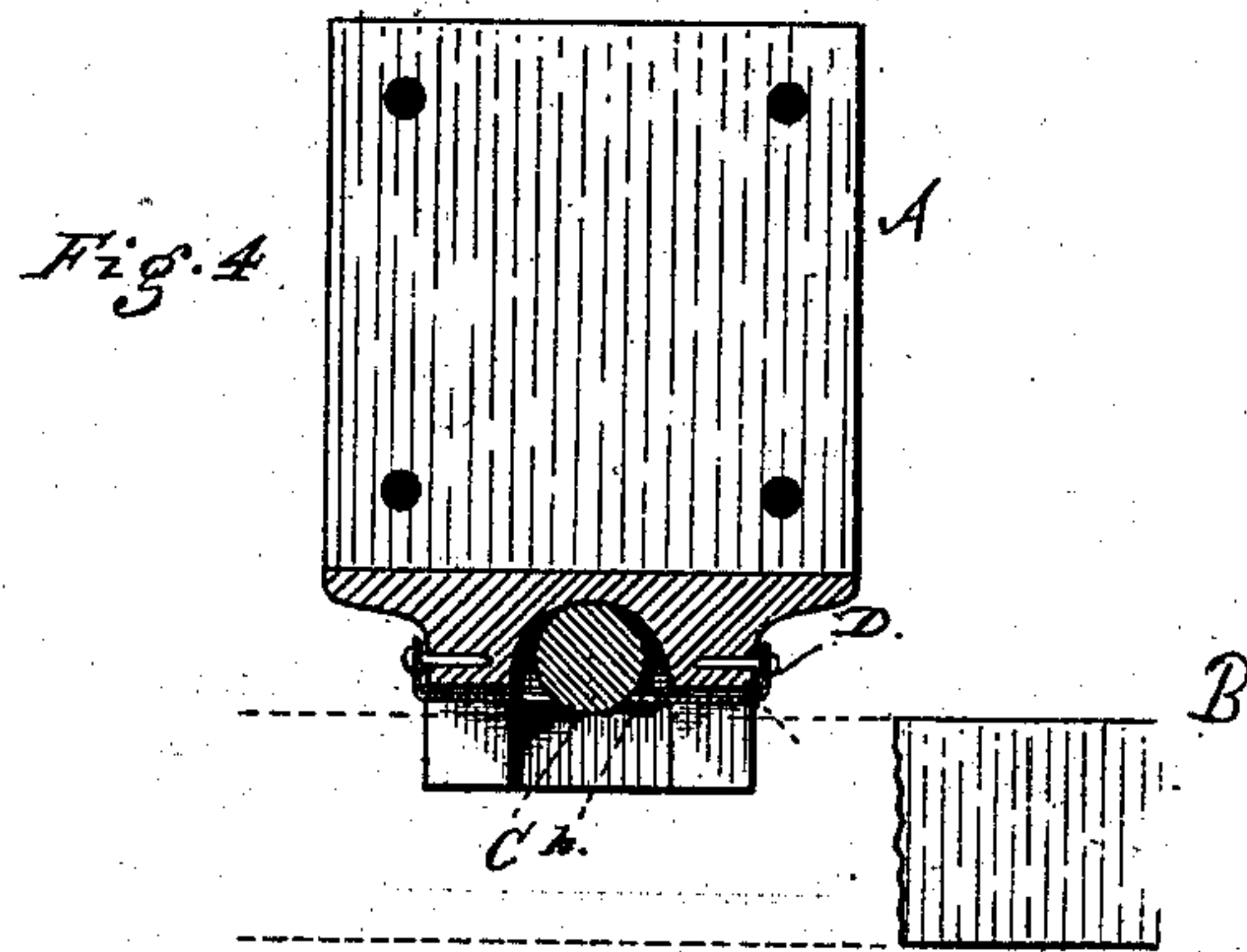
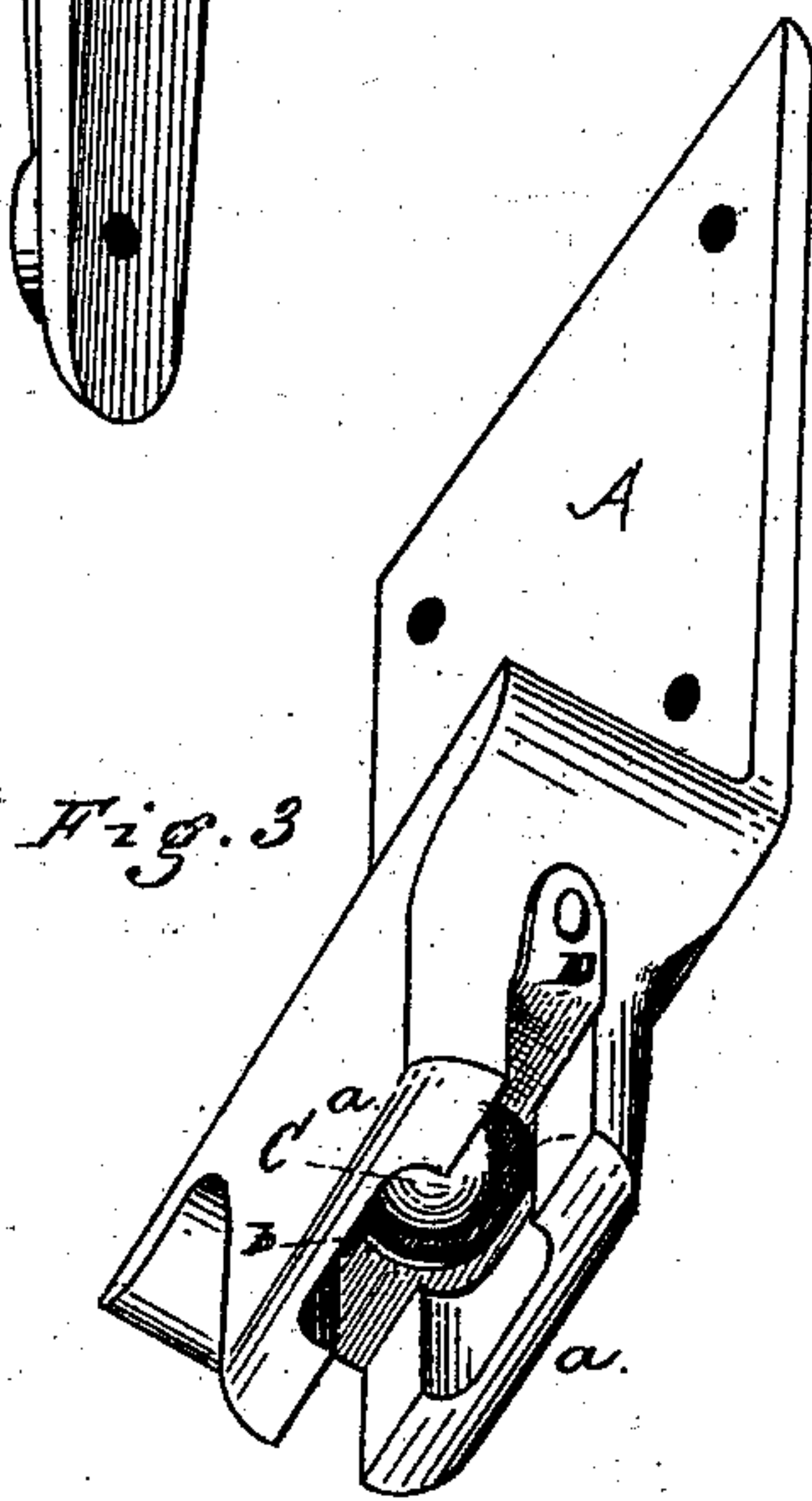
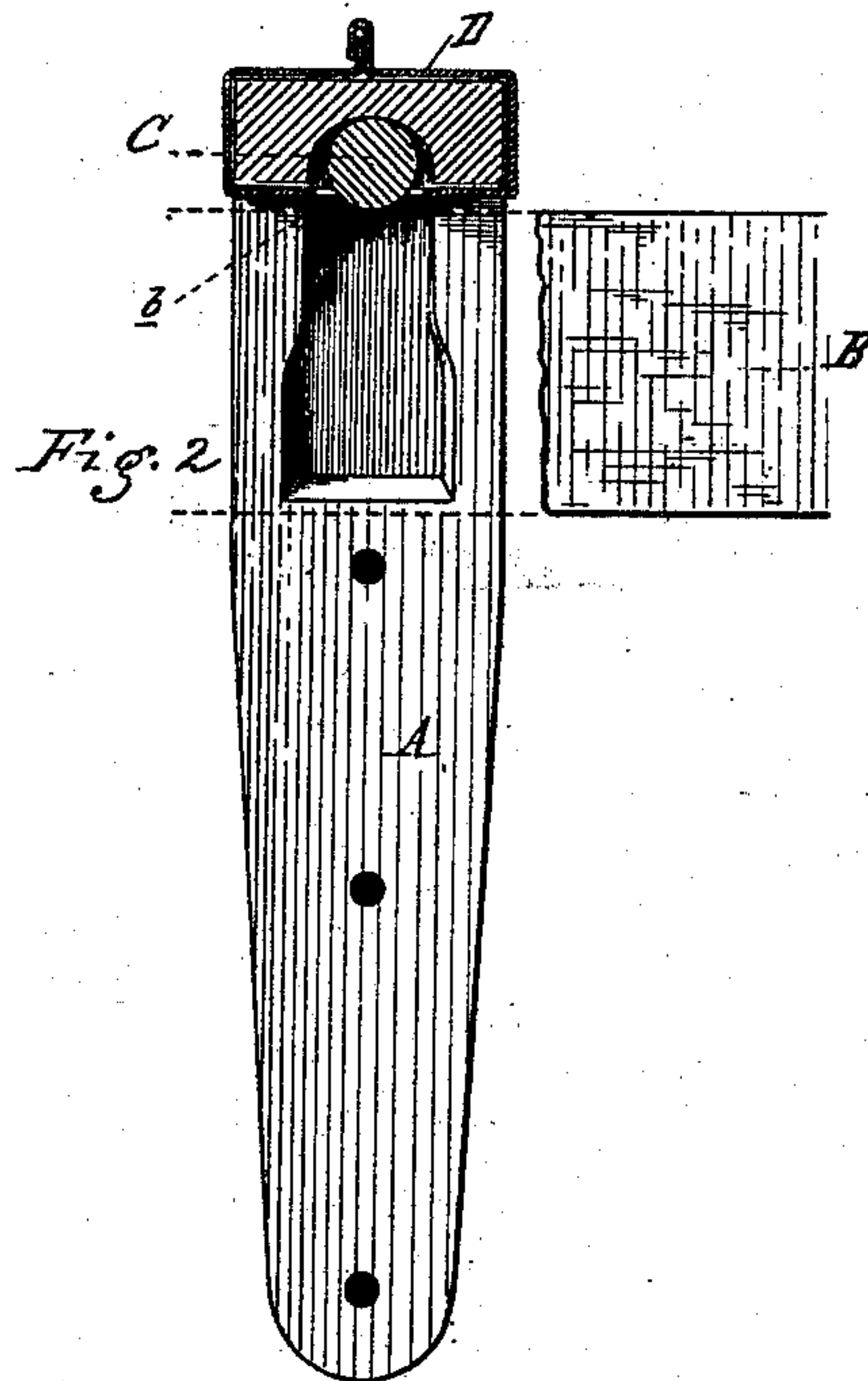
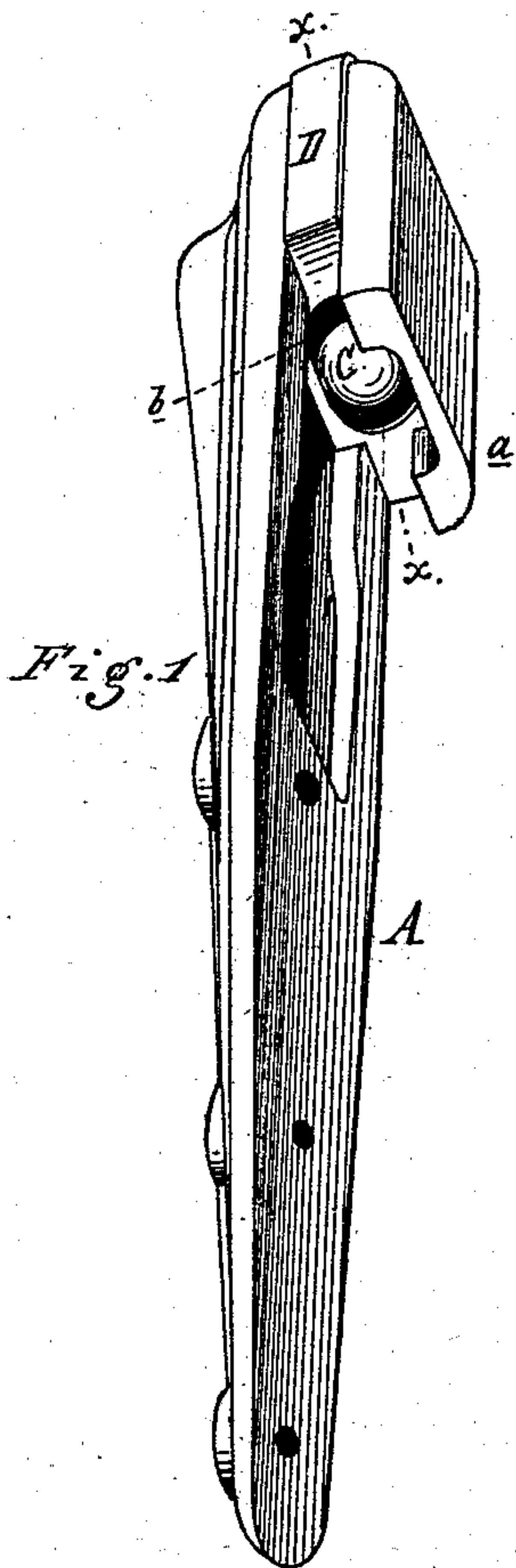


A. N. MONTEER.
Door-Hanger.

No. 223,941.

Patented Jan. 27, 1880.



Attest:
J. Barthel
Thos. E. Day

Inventor:
A. N. Monteer
By atty
Thos. E. Day

UNITED STATES PATENT OFFICE.

ALEXANDER N. MONTEER, OF KANSAS CITY, MISSOURI.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 223,941, dated January 27, 1880.

Application filed October 14, 1879.

To all whom it may concern :

Be it known that I, ALEXANDER N. MONTEER, of Kansas City, Jackson county, Missouri, have invented an Improvement in Door-Hangings, of which the following is a specification.

The nature of this invention relates to certain new and useful improvements in devices particularly designed for hanging and carrying car-doors; and the invention consists in the peculiar construction, arrangement, and combination of the various parts, all as more fully hereinafter set forth.

In the drawings, Figure 1 is a perspective view of my improved hanger. Fig. 2 is a section on line *x x*. Fig. 3 is a perspective view of a modification of my door-hanger, to be secured to lower edge of door. Fig. 4 is a sectional view of the same.

In the accompanying drawings, which form a part of this specification, A represents a metallic hanger, which is secured to the upper edge of a car-door so that its flange *a* will embrace the bar B, secured to the side of the car, as in the ordinary manner. Within the head of this hanger I form a chilled recess, *b*, within which I place a metal case-hardened ball, C, the same being held in place by means of the band D, through the hole in which the ball protrudes, as shown in Fig. 2; so that the ball may come in contact with the edge of the bar B, upon which it travels. The ends of this band D are secured in any convenient manner.

In Figs. 3 and 4 of the drawings, which are views of the modified form of my door-hanger,

A represents the part to be secured to the lower edge of the door; *a a*, the flanges in which the downward-projecting portion of the hanger terminates, which, when in place, embraces the bar B, secured to the side of the car, and thus prevents lateral motion; *b*, the recess which receives the metal ball C, and D the strap for holding the ball in place, the ends of the strap being secured to the hanger by pins or screws.

By this manner of hanging a car-door, as the door is moved backward or forward, the weight is supported upon the ball C, which tends to neutralize the friction, and as it is loose in the recess, it revolves in all directions, and consequently wears equally on all sides.

Should the hangings become loose, the balls are retained by the straps or bands and cannot fall out.

It is not usual to use both of these devices upon a door, though it may be done, if desired.

What I claim as my invention is—

1. In a door-hanger, the combination, with the metallic hanger A, having flanged head *a* and recess *b*, of the ball C, held in place by the strap D, arranged substantially as described and shown.

2. In a door hanger, the combination, with the ball C, of the strap D, for retaining the ball in place, substantially as described and shown.

ALEXANDER N. MONTEER.

Witnesses:

JAMES HEWSON,
FRANK DAVIS.