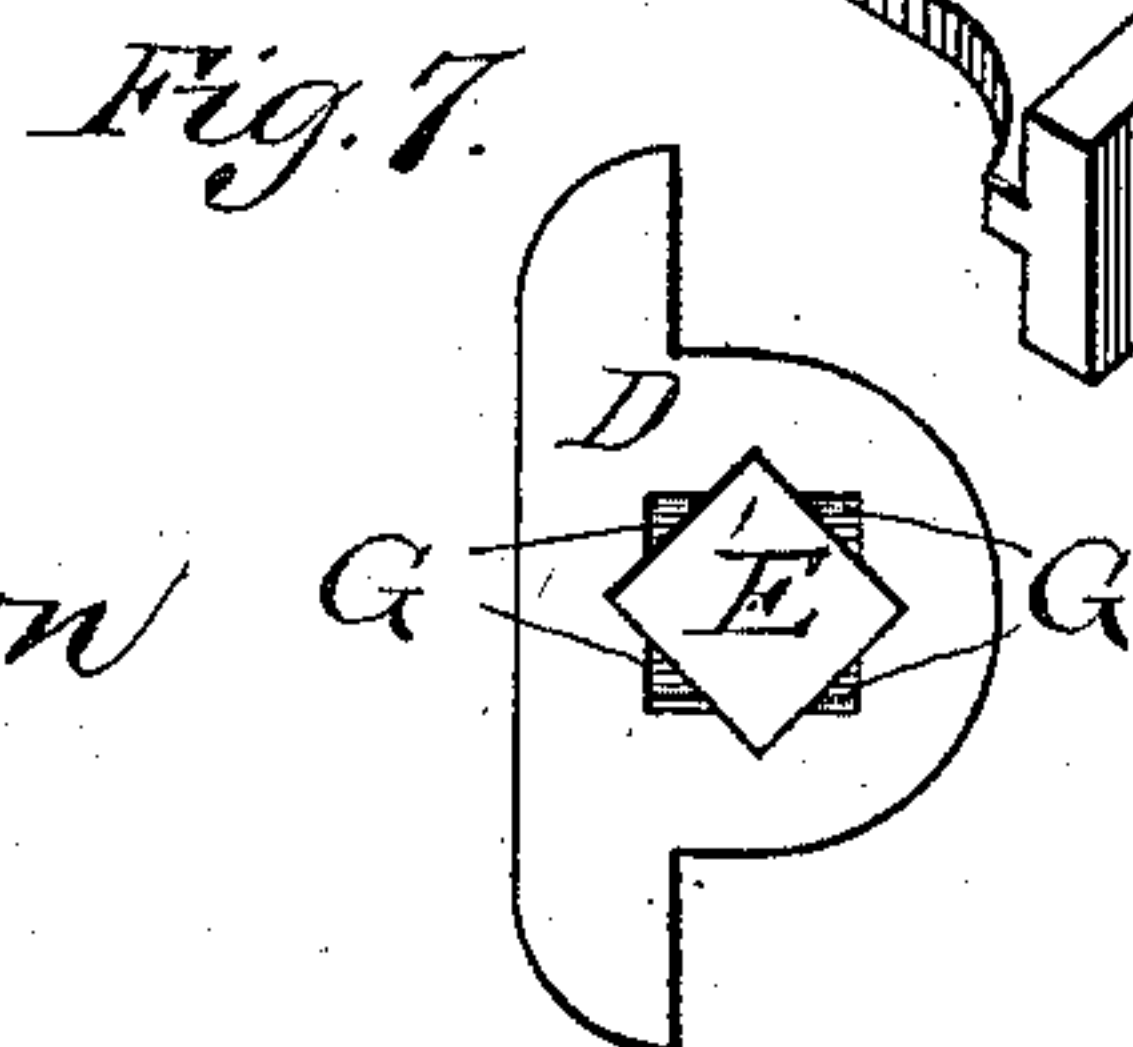
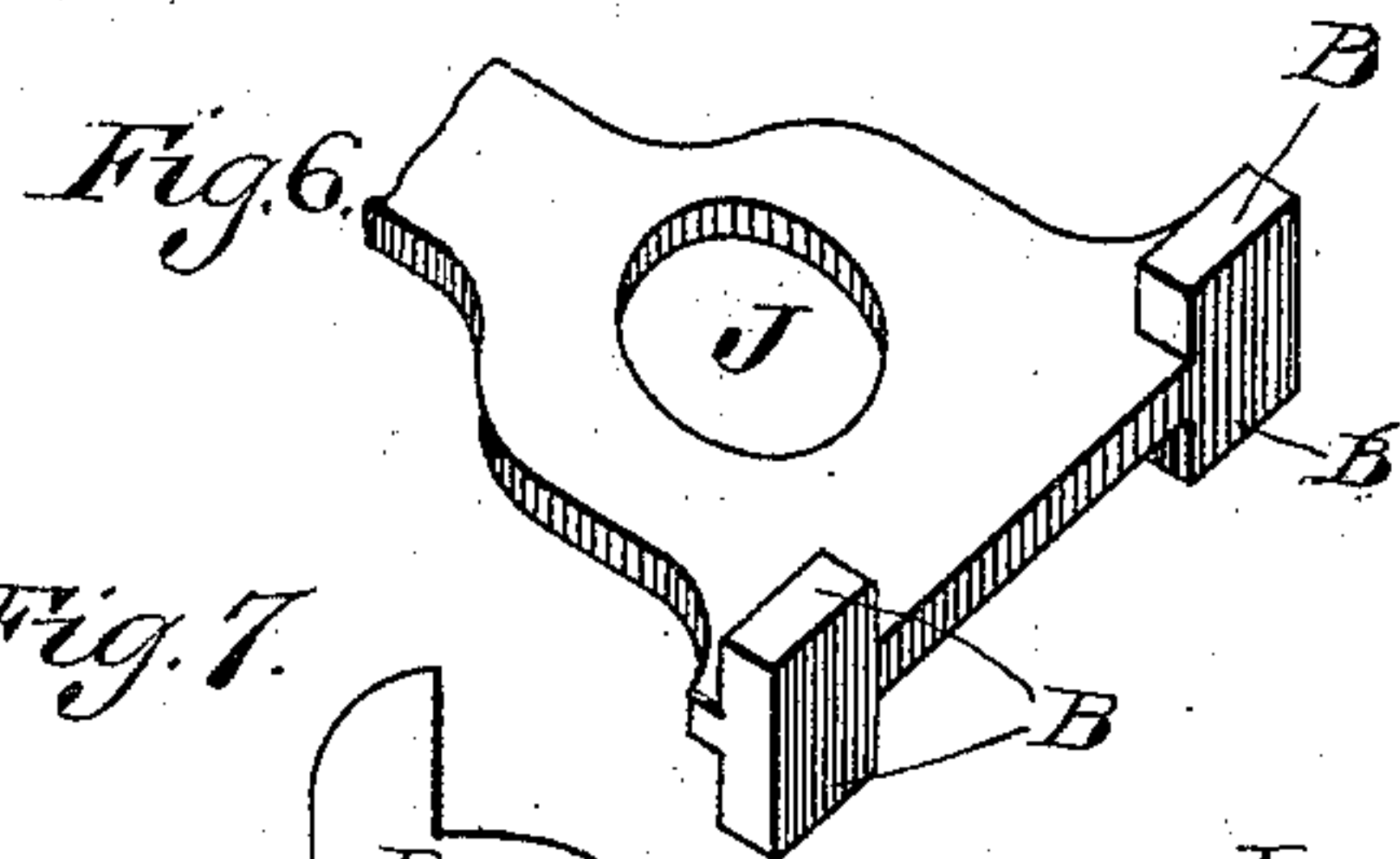
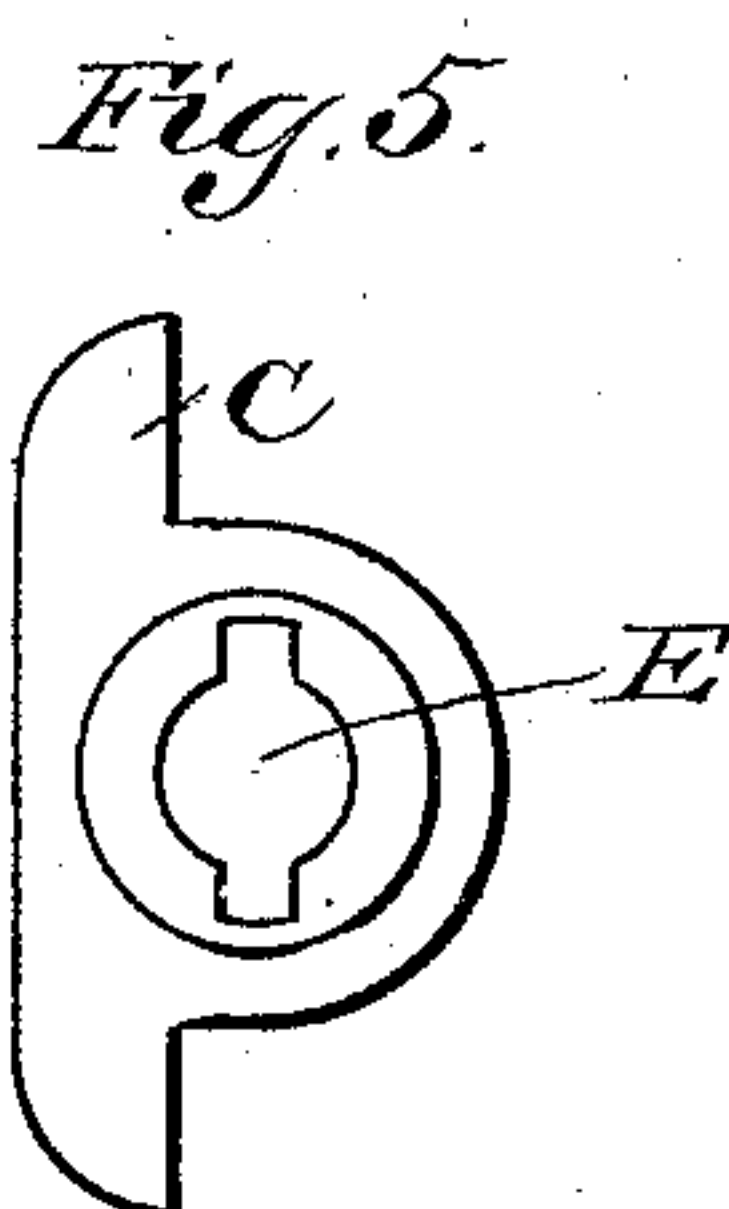
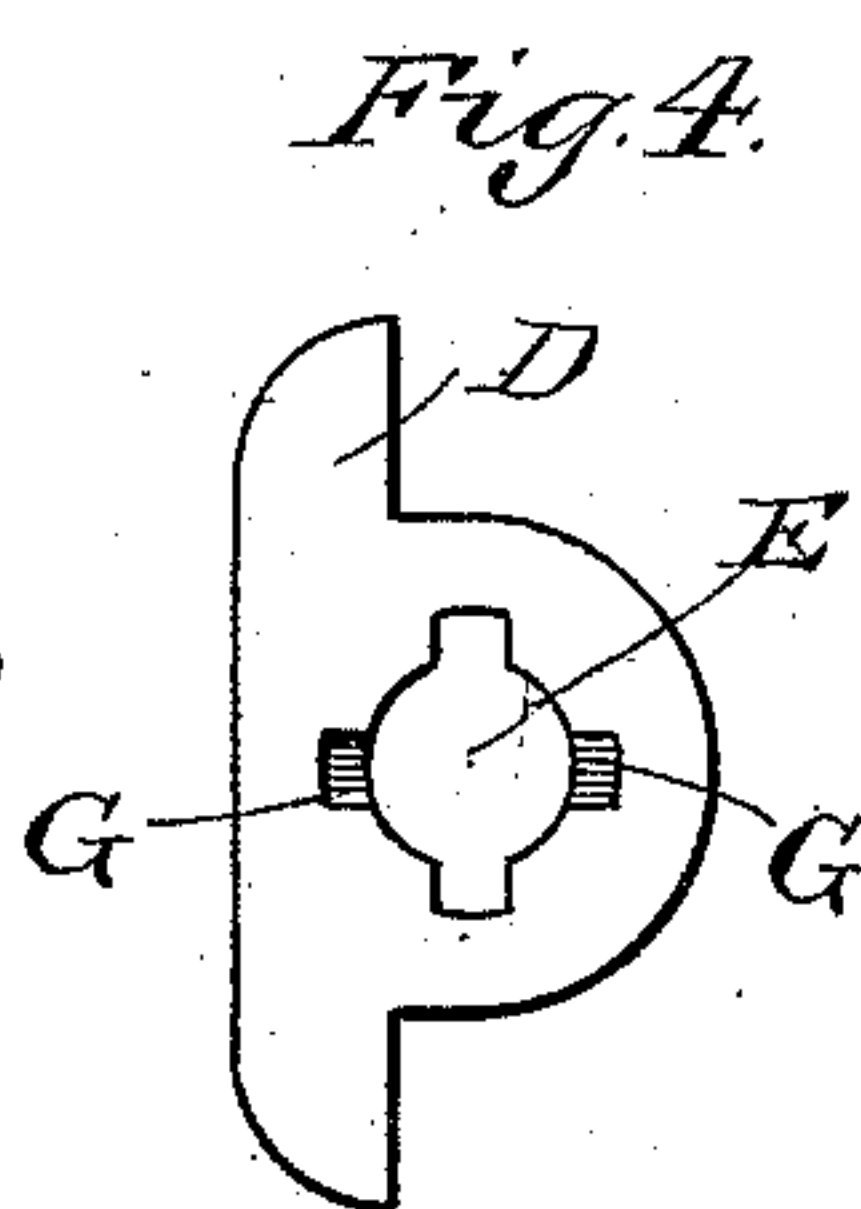
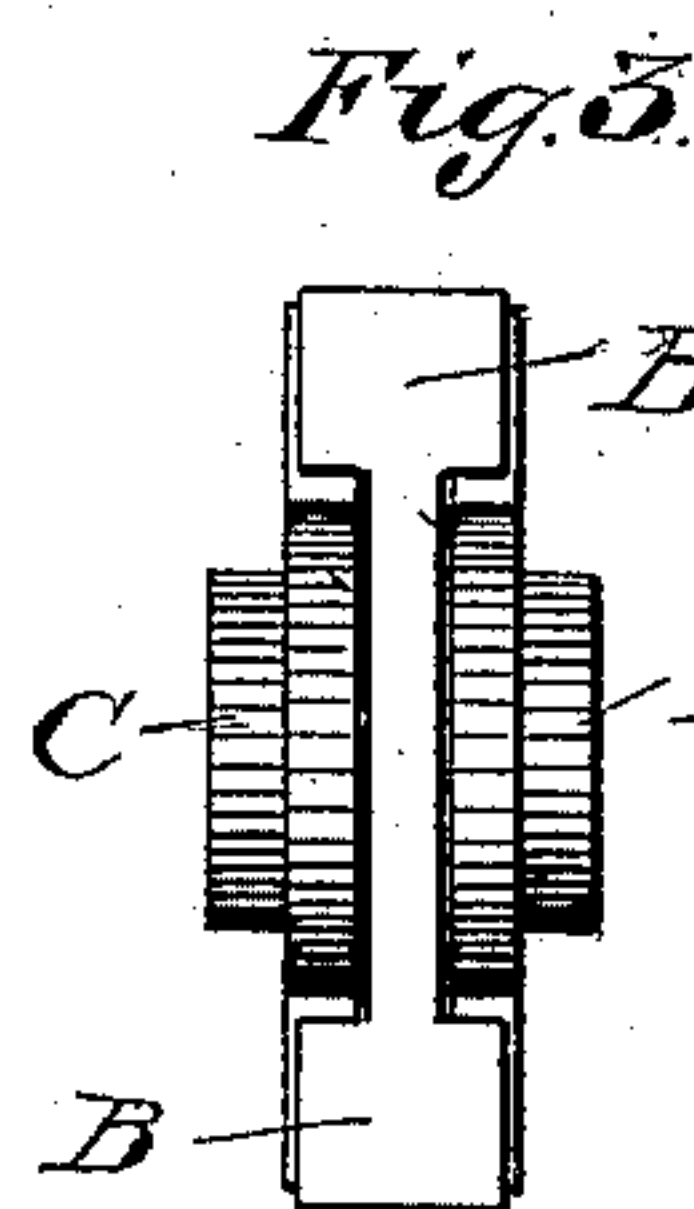
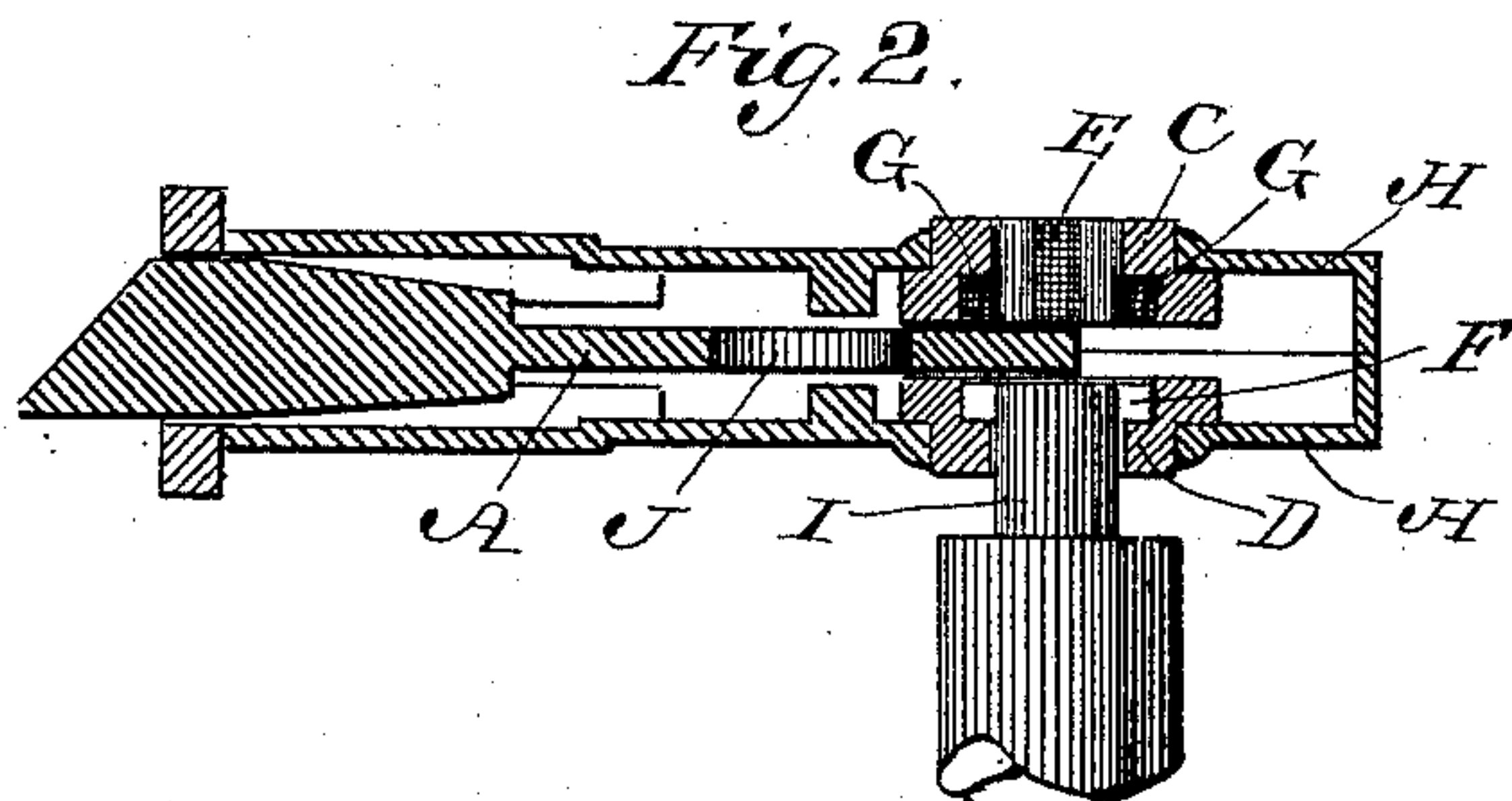
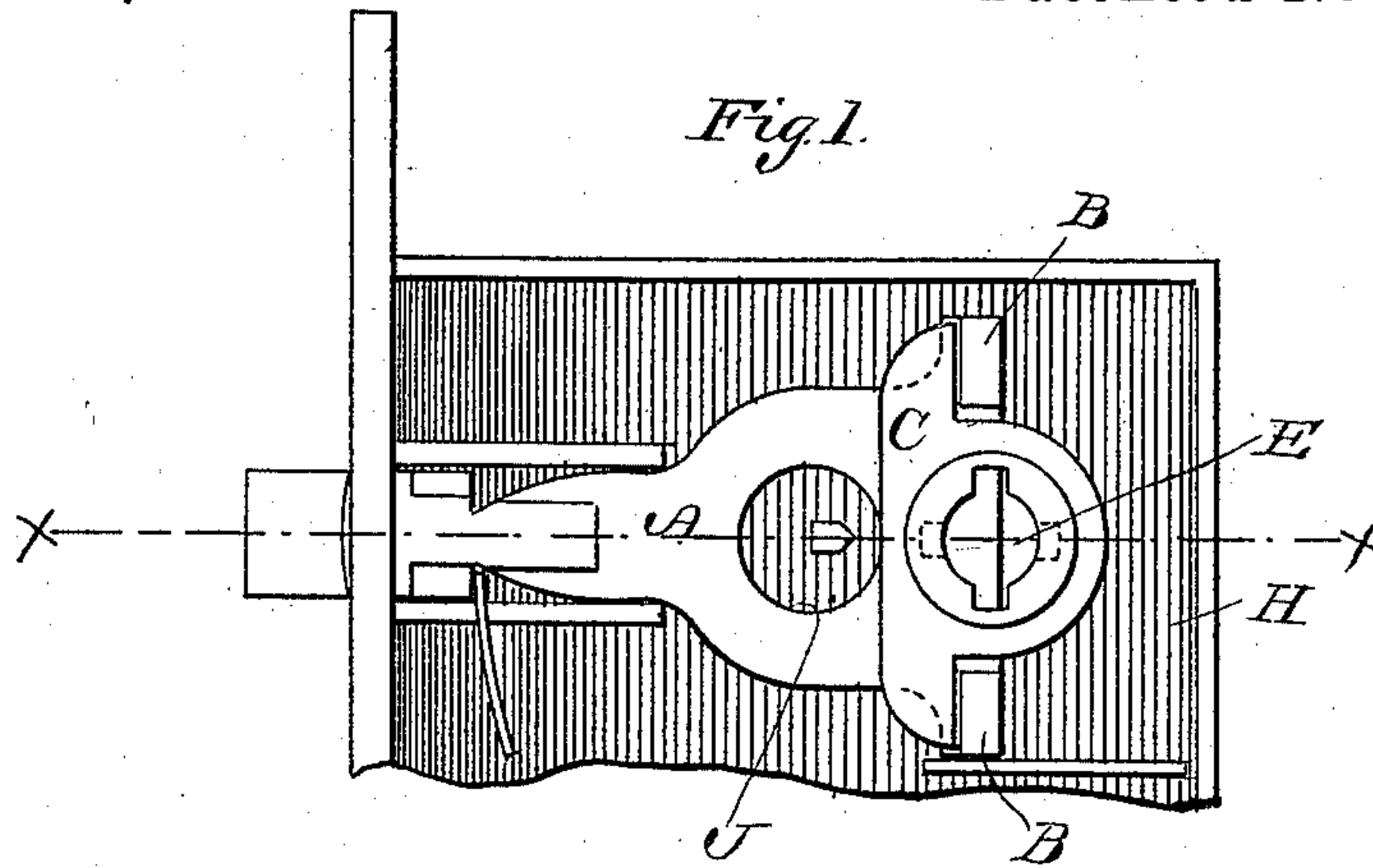


(No Model.)

W. I. ALVORD.
KNOB ATTACHMENT.

No. 330,189.

Patented Nov. 10, 1885.



Witnesses
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UNITED STATES PATENT OFFICE.

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KNOB ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 330,189, dated November 10, 1885.

Application filed September 3, 1885. Serial No. 176,067. (No model.)

To all whom it may concern:

Be it known that I, WILLISTON I. ALVORD, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Knob Attachments for Latches; 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.

My invention relates to certain novel and useful improvements in knob attachments for latches, and has for its object to attach the two knobs of a latch so that they can be manipulated independent of each other; and with these ends in view my invention consists in certain details of construction and combination of elements, hereinafter described, and then specifically designated by the claim.

In order that those skilled in the art to which my invention appertains may fully understand its construction and operation, I will proceed to describe the same in detail, referring by letter to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a plan view illustrating my improvement without the knobs, the casing being partly removed and broken away; Fig. 2, a section taken at the line *x x* of Fig. 1, the casing being complete and a single shank being shown secured within its hub; Fig. 3, a rear view showing in detail the relative position of the latch shank and hubs; Fig. 4, a detail plan view of the inner face of the rear hub; Fig. 5, a similar view of the outer face of the front hub; Fig. 6, a detail perspective of the rear end of the latch-shank, and Fig. 7 a detail plan view illustrating the inner face of a hub having a modified form of opening and recess.

Similar letters denote like parts in the several figures of the drawings.

In my application for Letters Patent filed April 16, 1885, bearing serial numbers 162,404, 162,405, and 162,406, I have shown and described a certain style of knob attachments, the principal characteristic of which is the interlocking of a head on the knob-spindle with a shouldered recess.

My present improvement does not materially differ from my above-mentioned attachments in the manner of fastening; but the feature which I now believe to be novel is the construction and arrangement of the latch-hub with respect to the latch and knob shanks.

A is the latch-shank, having at its rear end the shoulder B, projecting on either side. The hub is made in two pieces, C D, each piece having a central opening, E, adapted to accommodate the head F of the knob-shanks, and these openings are recessed from the inner face, so as to afford a seat, G, for the head F out of coincidence with the opening E.

In assembling the several parts of my improvement preparatory to attaching the knobs, I place the hub-sections on either side of the latch-shank, as shown in Figs. 2 and 3, in such manner that the wings of the hubs will, when operated, readily strike against the shoulders B and actuate the latch. The exterior of the hubs fits closely within apertures in the casing H, so that they have a fixed position when assembled, as shown at Fig. 2.

In attaching the knobs it is only necessary to force the latch backward until the opening J is in alignment with the openings in the hubs, insert the head F of the knob shank I within said openings and beyond the hubs, give the knobs a slight turn, and then withdraw them into abutment with the seats G. The latch is then released, and the knobs thereby prevented from being displaced or removed by the intervention of the latch-shank between the heads, as clearly shown at Fig. 2.

Of course, any gravity or other ordinary contrivance may serve to keep the knob-shanks from being removed; but I prefer to utilize the latch-shank for this purpose, as it is the simplest and most effective in its operation.

Of course, it will be readily understood that the shape or configuration of the shank-head and its corresponding hub-opening is immaterial.

Having thus described my invention, what I claim as new and useful is—

The combination, with independent hubs located on opposite sides of the latch-shank and recessed as described, and knob-shanks

having heads adapted to be attached to said
hubs within said recesses, of the latch, the
body of the shank of which is interposed be-
tween said heads when the parts are in their
5 assembled position, whereby the knob-shanks
are secured in their positions against retrac-
tion, substantially as and for the purposes
specified.

In testimony whereof I affix my signature in
presence of two witnesses.

WILLISTON I. ALVORD.

Witnesses:

S. S. WILLIAMSON,
W. T. HAVILAND.