

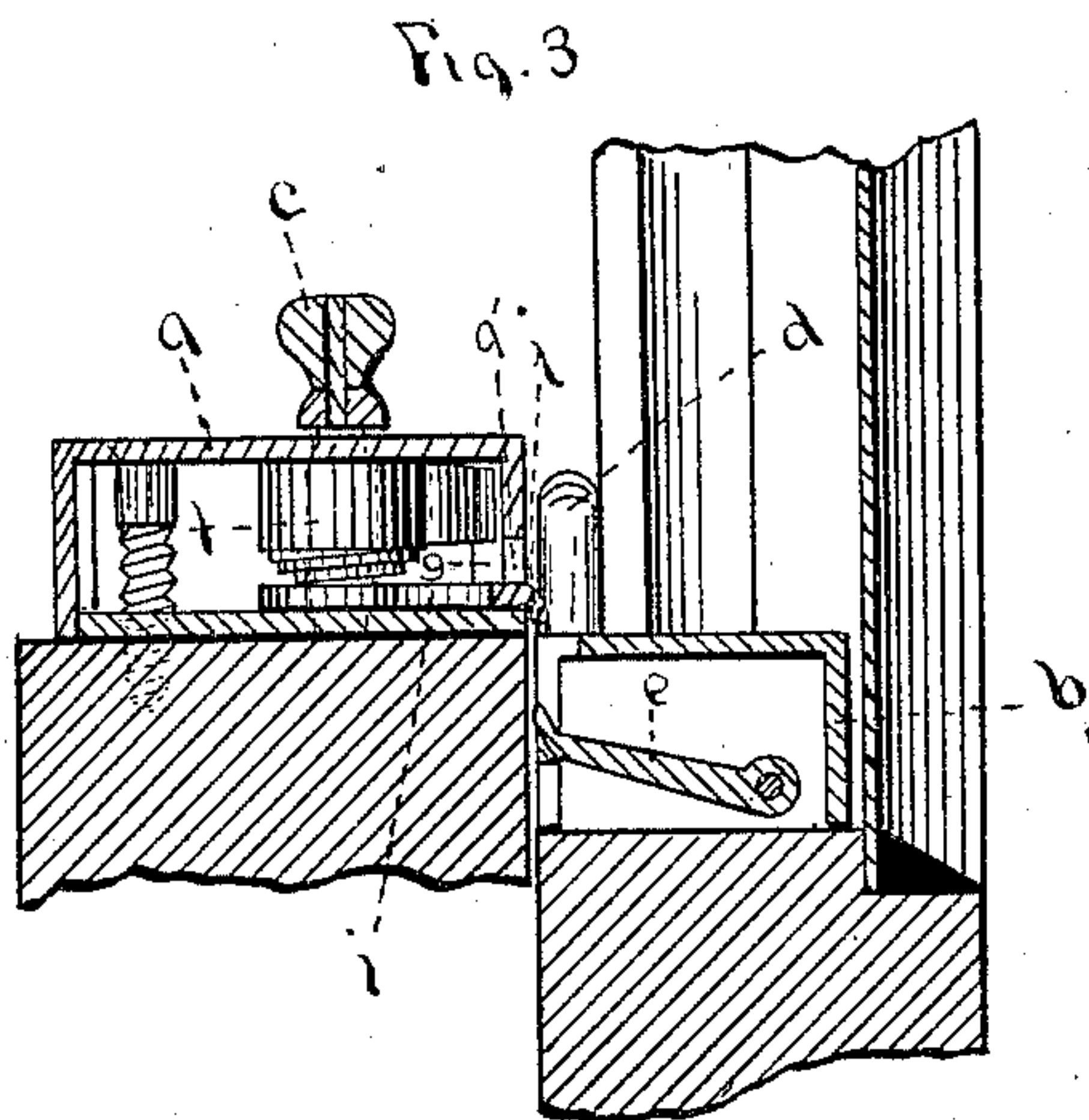
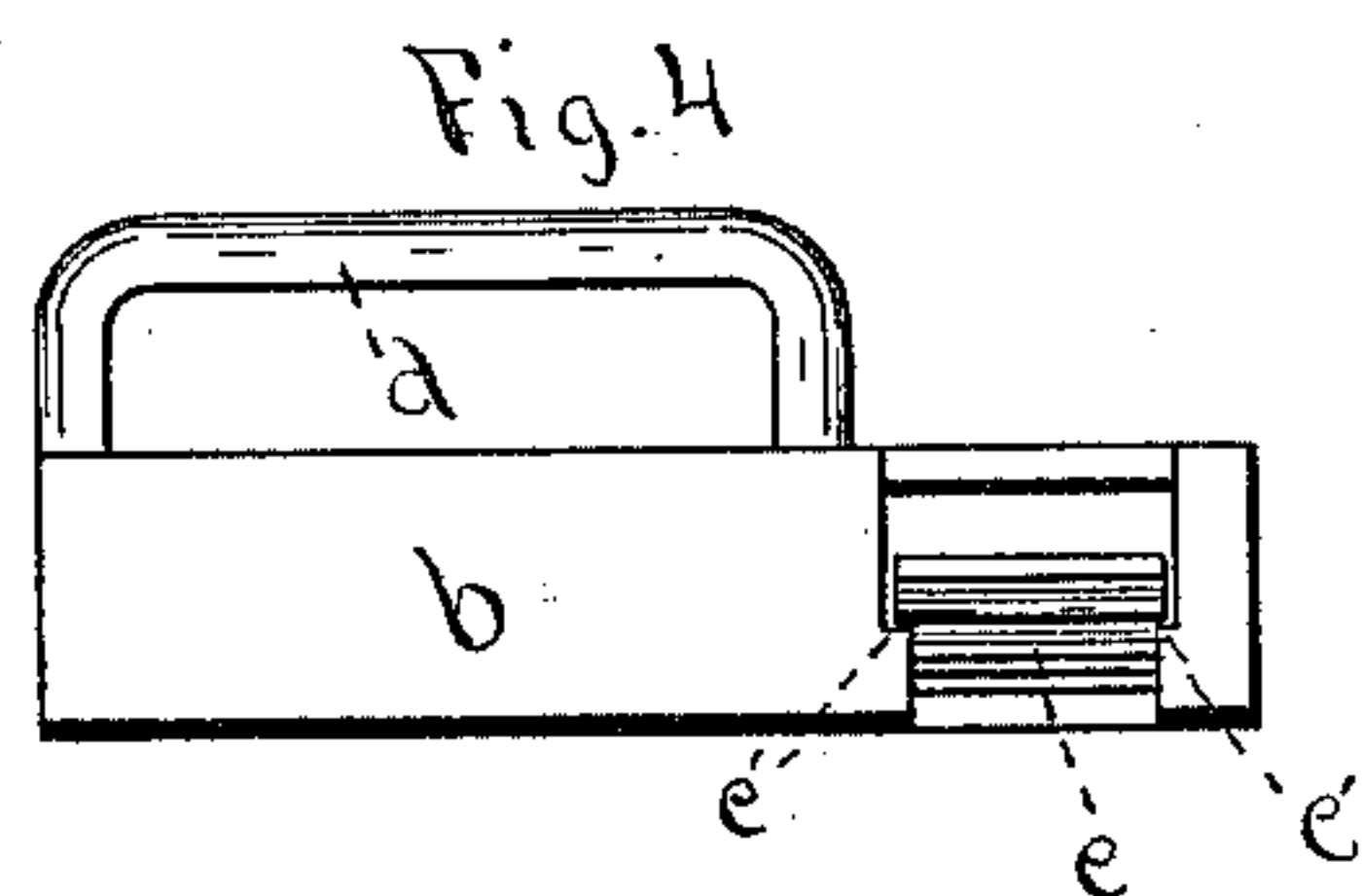
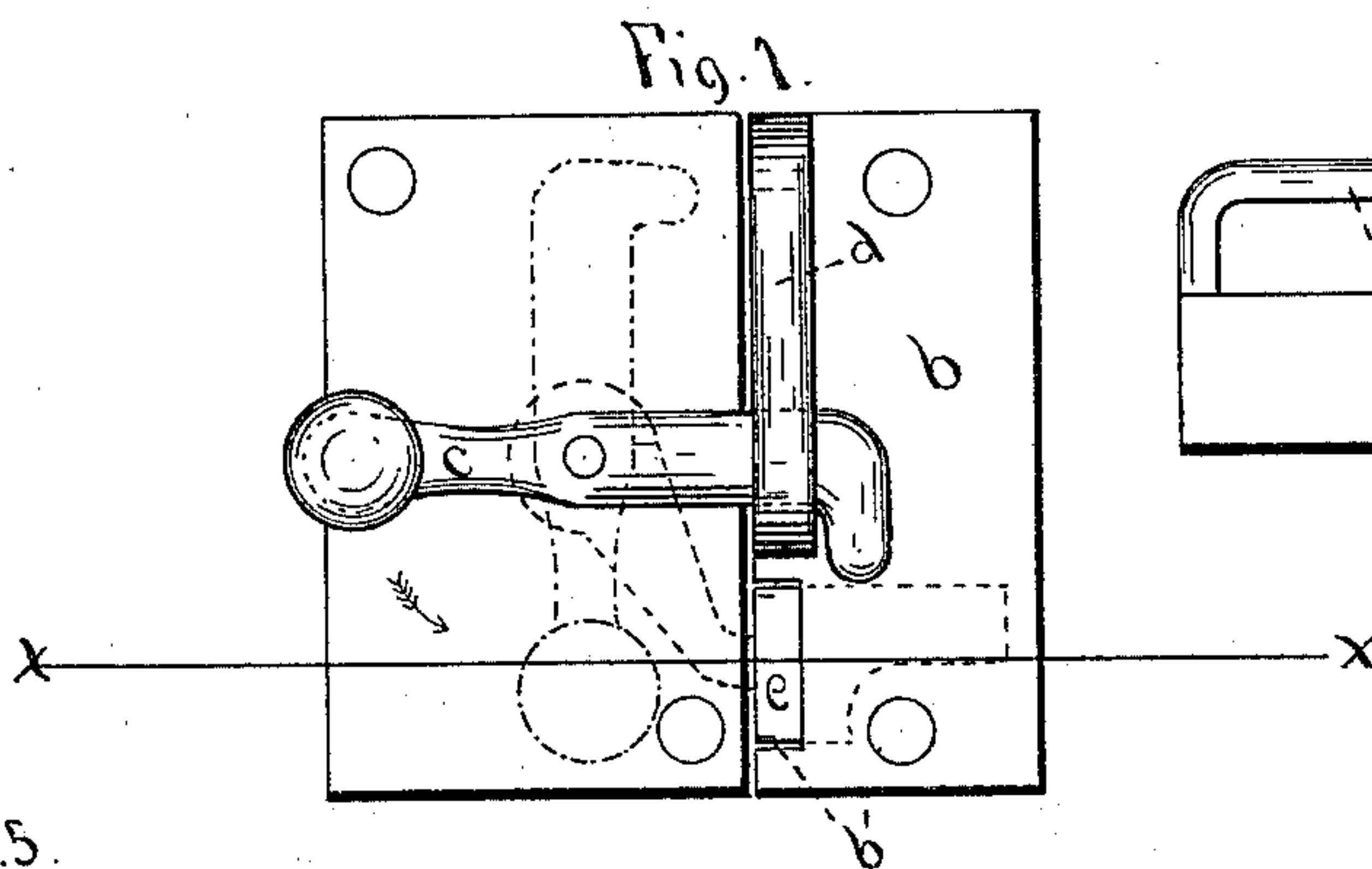
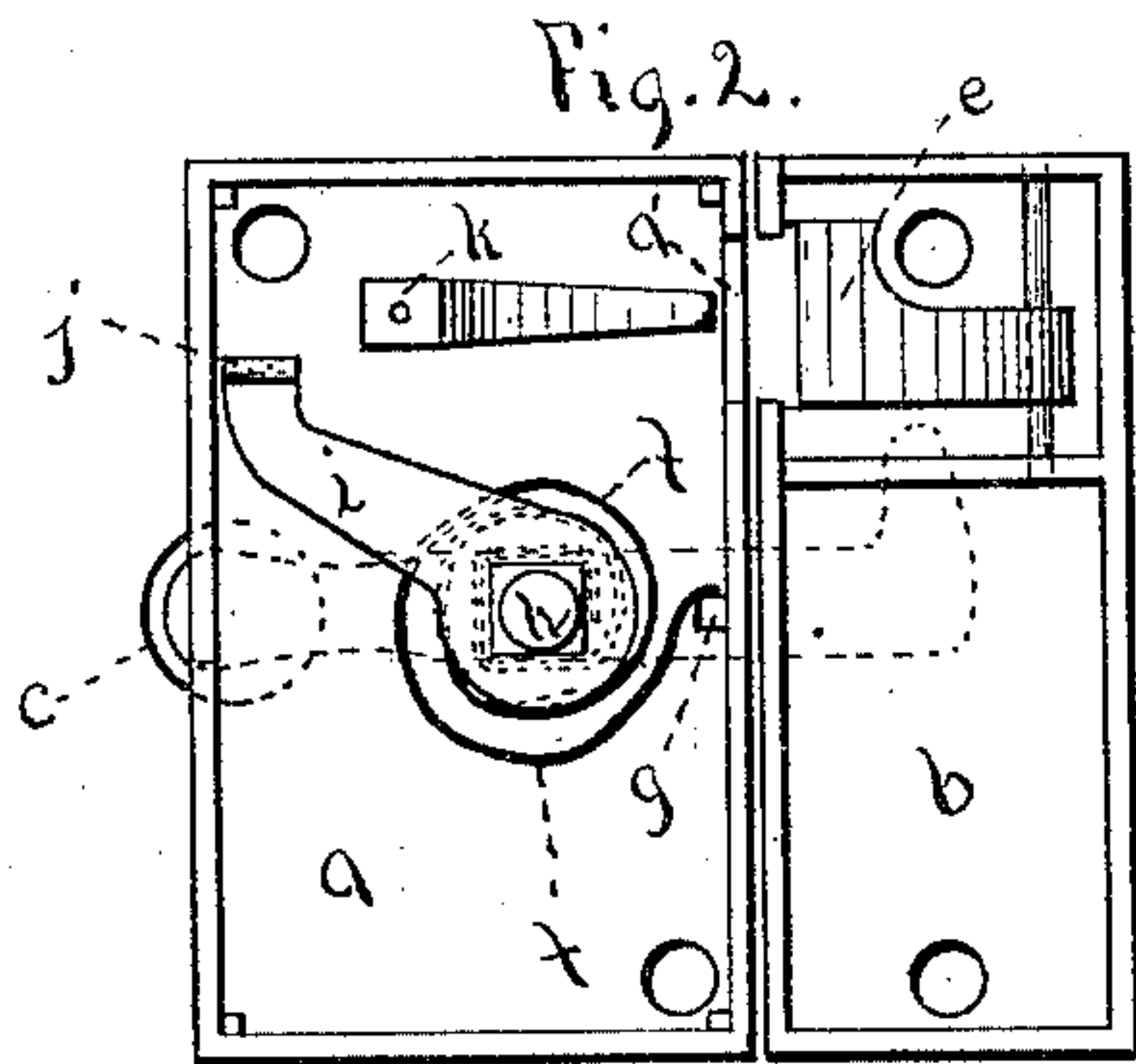
(No Model.)

G. W. REEVE.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 286,224.

Patented Oct. 9, 1883.



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UNITED STATES PATENT OFFICE.

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FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 286,224, dated October 9, 1883.

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

To all whom it may concern:

Be it known that I, GEORGE W. REEVE, a citizen of the United States, residing at Millburn, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Self-Locking Sash-Fasteners; 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 letters of reference marked thereon, which form a part of this specification.

The object of this invention is to provide an automatic or self-locking sash-fastener; and it consists of such arrangements and combination of parts as will be hereinafter set forth, and finally embodied in the claim.

In the drawings, in which similar letters of reference indicate like parts in each of the several figures, Figure 1 is a plan of my invention. Fig. 2 is a plan of the interior of my improvement, looking from the under side. Fig. 3 is a cross-section through line *x*, secured to window-sashes, also in cross-section. Fig. 4 is a side elevation of the part of fastener lettered *b*, and Fig. 5 is an elevation of a spring used in my invention.

My improved automatic fastener is secured to the window-sashes by screws, as indicated, or in any other suitable manner. The part *b*, Fig. 1, is attached to the upper sash at its middle lower portion on the meeting-rail, and the part *a* is attached to the lower sash on the meeting-rail at the middle, both parts being in line, horizontally and vertically, when the sashes are closed.

I construct my fastener in two parts, secured to the meeting-rails as indicated above, the part *a*, Fig. 1, containing the mechanism which operates the locking-bolt *c*, the part *b* containing the catch *e*, and having a staple or loop, *d*, projecting upward to receive the locking-bolt *c*.

The mechanism operating the locking-bolt *c* consists of a spring, *f*, Figs. 2, 3, and 5, one end of which is secured to or caught upon a projection, as at *g*, Figs. 2 and 3, in the casing, or may be fastened in any suitable manner, and the other end is secured to or coiled around a pin, *h*, Fig. 2, passing through the casing *a*, to which pin the locking-bolt *c* is securely

riveted or fastened, and both pin and locking-bolt move together when acted upon by the spring *f*. The body portion of the pin *h* within the casing may be angular or round, preferably angular, one end of which is riveted or secured to the locking-bolt *c*, as before mentioned. The parts of pin passing through top and bottom of the casing have round bearings.

Between the spring and the bottom of the casing is an arm, *i*, Figs. 2 and 3, one end fitting around the pin *h*, forming an angular joint, as shown, Fig. 2, the other end having a projection, *j*, Figs. 2 and 3, and the arm *i*, pin *h*, and locking-bolt *c* all moving together when the spring *f* acts.

Figs. 1 and 2 show the fastener when the window is locked. The spring *f* is uncoiled, the arm *i* is thrown back, and the bolt *c* engages with the staple *d*, thus locking the window.

When it is necessary to open the window, turn the locking-bolt *c* in the direction indicated by the arrow, Fig. 1, at right angles to its locking position. This will tighten or wind the spring *f* and turn the arm *i* around, as dotted on Fig. 1, until it protrudes through the opening *a'*, Figs. 2 and 3, in the side of the casing *a*. As the arm *i* moves around it comes under the spring *k*, which presses it downward, and when the arm projects through the said opening the hook or projection *j* on the end of said arm catches on the bottom of the casing, as in Fig. 3, and holds the said locking-bolt at right angles to its locking position, as dotted on Fig. 1, and thus permits the sash to be raised.

The catch *e* swings on a bar, as shown in Figs. 2, 3, and 4, and projects through an opening in the side of the casing *b*, as in Figs. 3 and 4, but is prevented from falling to the bottom of said opening by flanges, as at *e'*, Fig. 4. The top of the casing *b* is cut in, as at *b'*, Fig. 1, so as to give the catch *e* more upward play. The openings in the sides of the casings *a* and *b* are opposite and facing each other.

The automatic locking action is as follows: The bolt *c* being at right angles to its locking position, and the arm *i* projecting through the opening in casing *a*, as indicated in Figs. 1 and 3, as the sash is raised the part of arm *i* projecting through the opening in casing *a*

lifts the catch *e*, which plays freely upward, thus permitting the parts to pass each other, and the catch drops back in position, as in Fig. 3. When the sash is lowered, the part of
5 the arm *i* projecting strikes the catch *e*, and, becoming disengaged, is thrown back by the action of the spring *f*, and the bolt *c* is thrown around under the staple *d*, thus locking the sashes.

10 Fig. 3 shows the parts about to come together.

In order to press the arm *i* downward so that the projection *j* on said arm will catch on the bottom of the casing, I use the spring *k*, placed
15 as shown in Fig. 2; or the spring *f* may be constructed so as to exert a downward pressure, as shown in Figs. 3 and 5, although I prefer the latter.

Having thus described my invention, what

I claim as new, and wish to secure by Letters 20 Patent, is—

In a sash-fastener adapted to be secured to the sashes of a window, the combination, with a locking-bolt, as *c*, and a casing, as *a*, having within a spring, as *f*, an arm, as *i*, and an open- 25 ing inside of the casing, as *a'*, of a casing, as *b*, having a staple, as *d*, and within said casing a catch, as *e*, and an opening in side of casing, as *b'*, all substantially as and for the purposes herein set forth. 30

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of January, 1883.

GEORGE W. REEVE.

Witnesses:

CHARLES H. PELE,
WM. B. DENMAN.