

J.C. Cook,

Window Button.

No. 100,505.

Patented Mar. 8. 1870.

Fig. 1

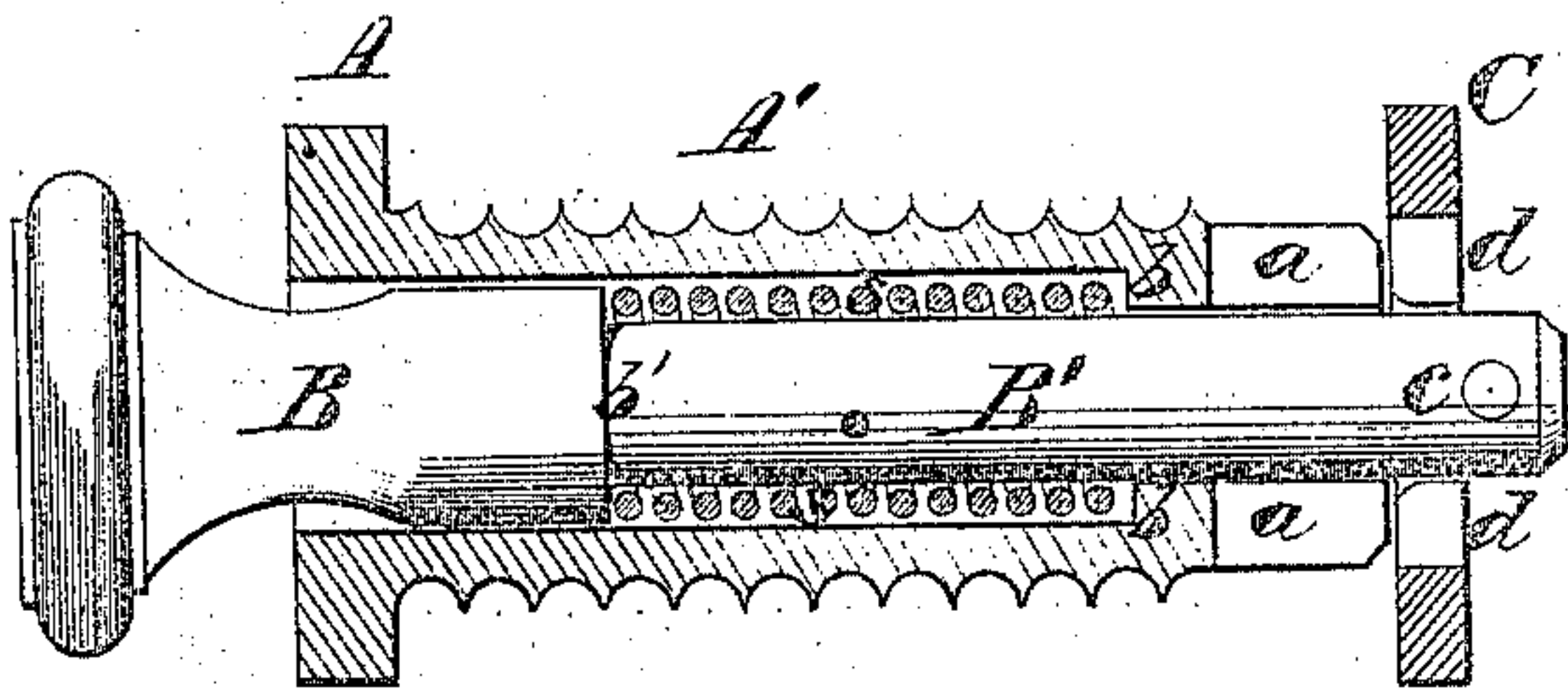


Fig. 2

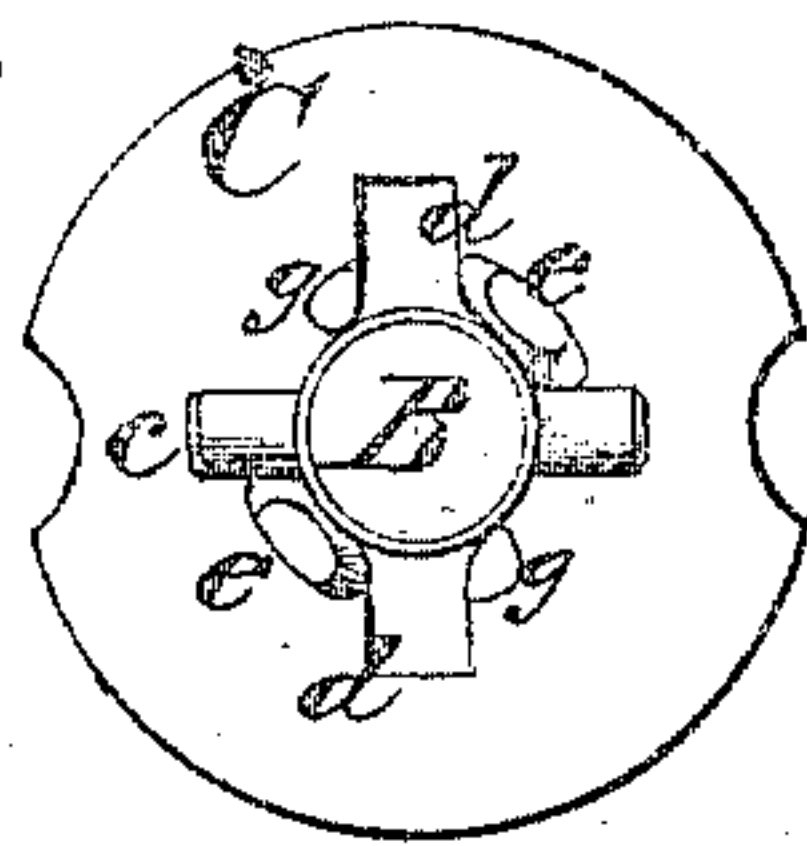


Fig. 3.

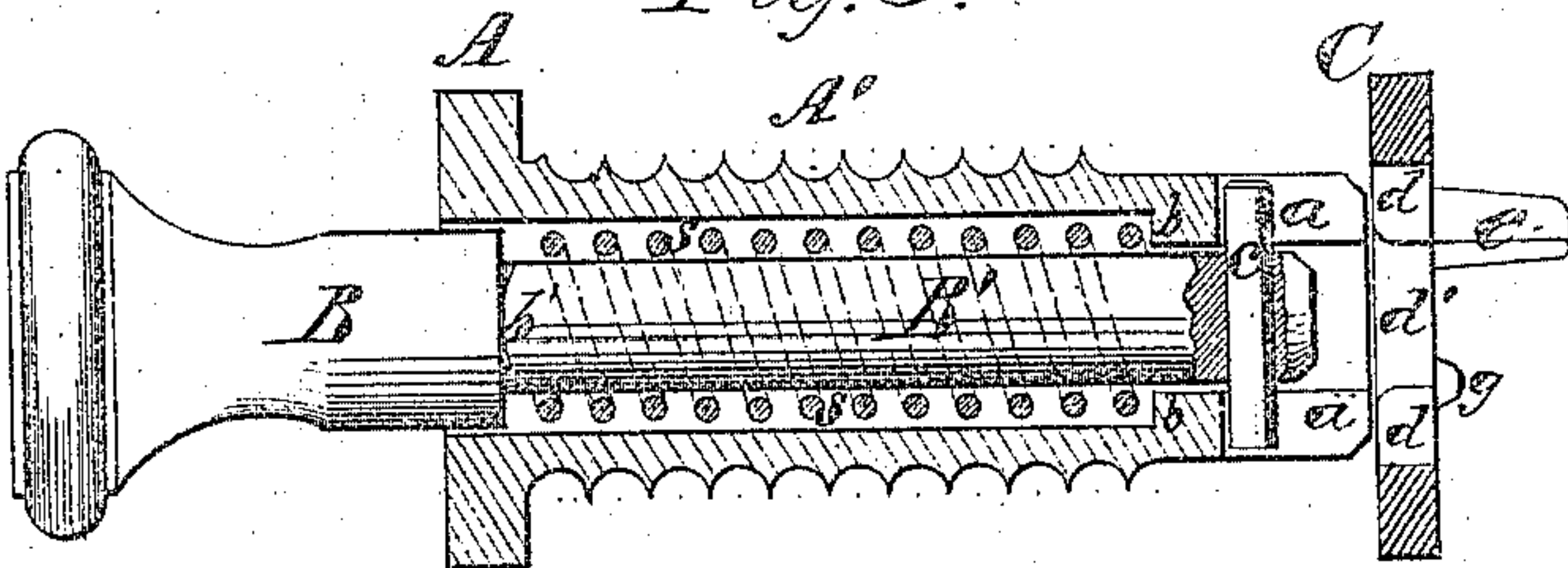


Fig. 4

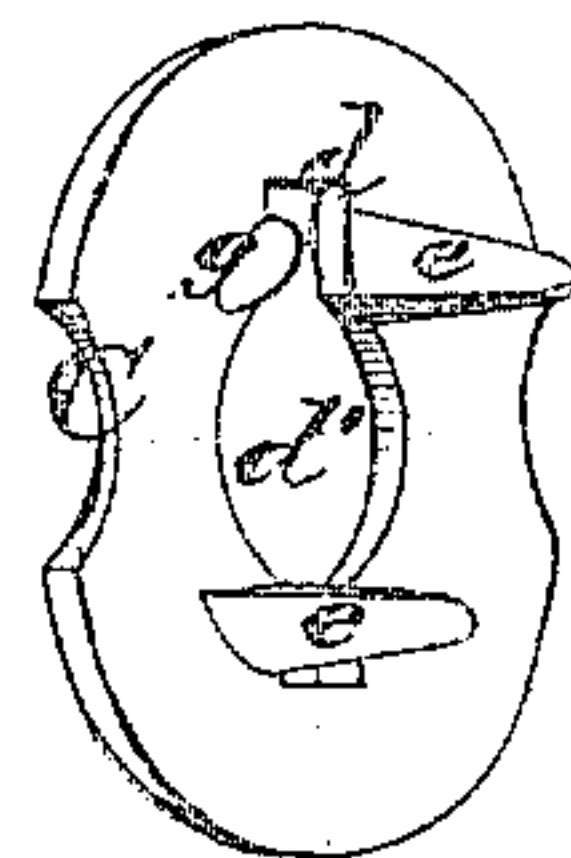


Fig. 5.

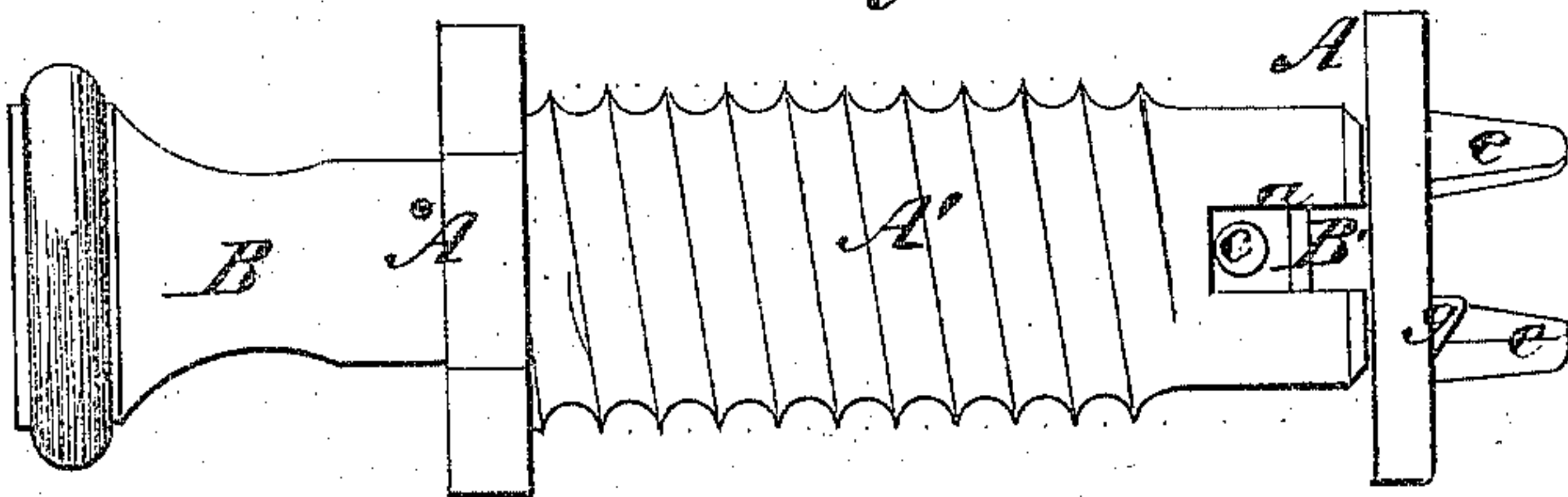
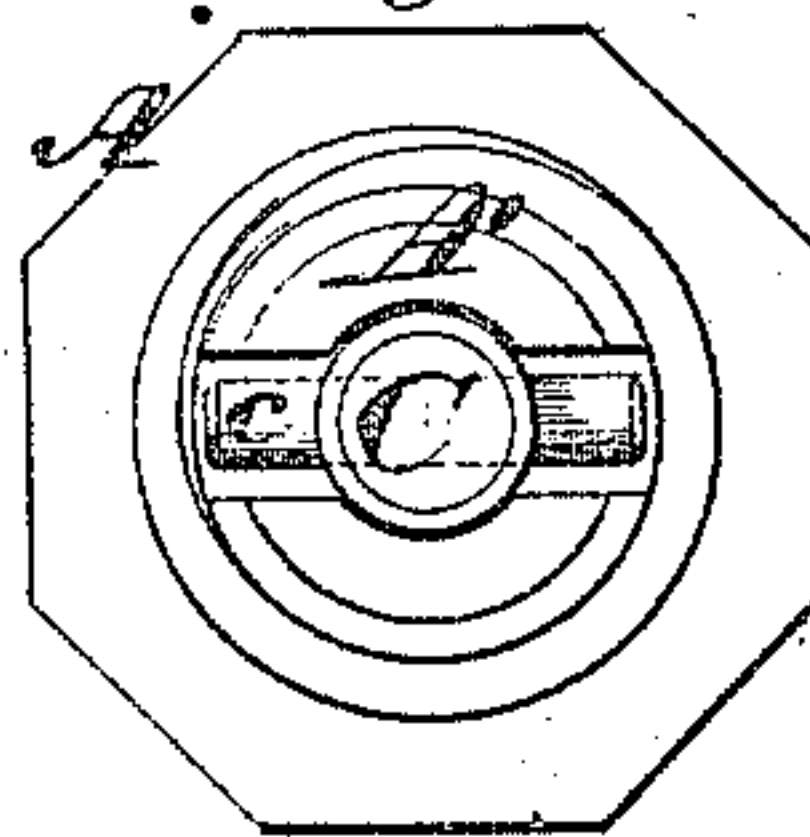


Fig. 6



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JAMES C. COOKE, OF BRIDGEPORT, ASSIGNOR TO DE WITT C. SAGE, OF MIDDLETOWN, CONNECTICUT.

Letters Patent No. 100,505, dated March 8, 1870.

IMPROVEMENT IN SASH-BOLT.

The Schedule referred to in these Letters Patent and making part of the same.

To all-whom it may concern :

Be it known that I, JAMES C. COOKE, of Bridgeport, in the county of Fairfield, and State of Connecticut, have invented a new and improved Sash-Fastening; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a diametrical section through the improved fastening.

Figure 2 is a view of the back of the guard plate.

Figure 3 is a sectional view of the same parts shown in fig. 1, indicating the two parts of the fastening detached from each other.

Figure 4 is a perspective view of fig. 2.

Figure 5 is an external view of the device.

Figure 6 is an end view of the screw-threaded tube and its spring stem.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this is to improve sash-fastenings, which are applicable to the meeting rails of window-sashes, by the application of a spring bolt, having a cross-pin applied to one end, within a screw-threaded tubular and slotted guide, and by the employment in combination therewith of a perforated plate having stops applied on its back side, said parts being so constructed as to afford a substantial and safe fastening, and one which cannot, under any circumstances, injure the sashes, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings I have represented the improved device enlarged.

It should be understood that the stem A is to be screwed transversely through the meeting rail of the lower sash of a window at the middle of the length of the said rail, and that the guard-plate C is to be applied to the inner side of the meeting rail of the upper sash, so that the center of this plate C will, when the windows are both closed, coincide with the longitudinal axis of the bolt B', as indicated in figs. 1, 3, and 5.

The stem A' has an opening centrally through it, and a thread formed helically around its circumference, thus forming a screw-threaded tube, which can be screwed into a hole bored through the sash-rail, and thus firmly held in place.

On one end of the stem A' a head, A, is formed, which may be ornamented in any suitable manner, and which is preferably made prismatic, in order that it may be conveniently gripped and firmly held, by means of a wrench, after the manner of a nut.

The bore through the opposite end of the stem A is of less diameter than the bore of greatest length, by which means a shoulder, *b*, is formed, between which shoulder and a shoulder, *b'*, on a bolt, B B', a helical spring, *s*, is applied, which coils around the reduced portion of said bolt and operates to force this bolt outwardly.

Through the reduced portion B' of the bolt a pin, *c*, is passed transversely, and securely fastened so that its extremities extend an equal distance from and on opposite sides of the periphery of the said reduced portion.

This pin *c* prevents the bolt from being forced out of its stem by abutting against the ends of slots *a a*, made through the stem, as shown in fig. 3. Pin *c* also serves other purposes, hereinafter explained.

The enlarged portion B of the bolt is formed into a knob or handle, ornamented in any suitable manner.

In combination with the tubular screw-stem and spring bolt, I employ a guard-plate, C, which is preferably made circular and with one flat face. This guard-plate is inserted into the meeting rail of the upper sash, so that its flat surface is flush with the inner surface of such rail.

A hole, *d'*, is made centrally through the plate C, of such diameter as will allow the smallest end of bolt B B' to pass freely through it, and from this hole *d'*, diametrically opposite each other, notches *d d* are formed of such length and width as will allow the ends of pin *c* to pass freely through the plate C.

On the back of this plate stops *e e g g* are formed; the two longest stops, *e e*, prevent the bolt B B' from being turned entirely around, while the stops *g g*, which are rounded or beveled, serve to keep the bolt in place when adjusted so as to fasten the sashes, as shown in fig. 2.

The fastening of the sash is effected by means of the pin *c*, acting against the back side of plate C, when adjusted between lugs *g e*. To thus adjust said pin the bolt B B' must be pressed forward until pin *c* passes through guard-plate C when this bolt should be turned one-fourth around, and the pin *c* brought at right angles to the notches *d d*.

The spring *s* will now, by its retraction, draw the meeting rails of the sashes together, and the end of the bolt being through plate C will prevent the sashes from being moved vertically.

When the pin *c* is adjusted in line with the notches *d d*, the spring *s* will draw this pin into the slots *a a*, as shown in figs. 3 and 5.

It will be seen that, when the fastening is applied to a sash, the bolt B B' can only be in one of two positions, to wit: the position shown in fig. 1, when it

will prevent the sashes from being moved, or in the position shown in fig. 3, when it will not be in the way of moving the sashes.

Having described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The tubular screw-stem A, slotted at *a a*, and provided with a head A, in combination with the bolt B B', pin *c*, and a guard-plate C, substantially as and for the purposes described.

2. The guard-plate C, perforated at *d d d'*, and having lugs *g g* and stops *e e* formed on it, adapted for use in combination with a spring bolt and a pin *c*, substantially as described.

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Witnesses:

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