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L. GATHMANN

Combined Sash Lock & Blind Opener

No. 119,457.

Patented Oct. 3, 1871.

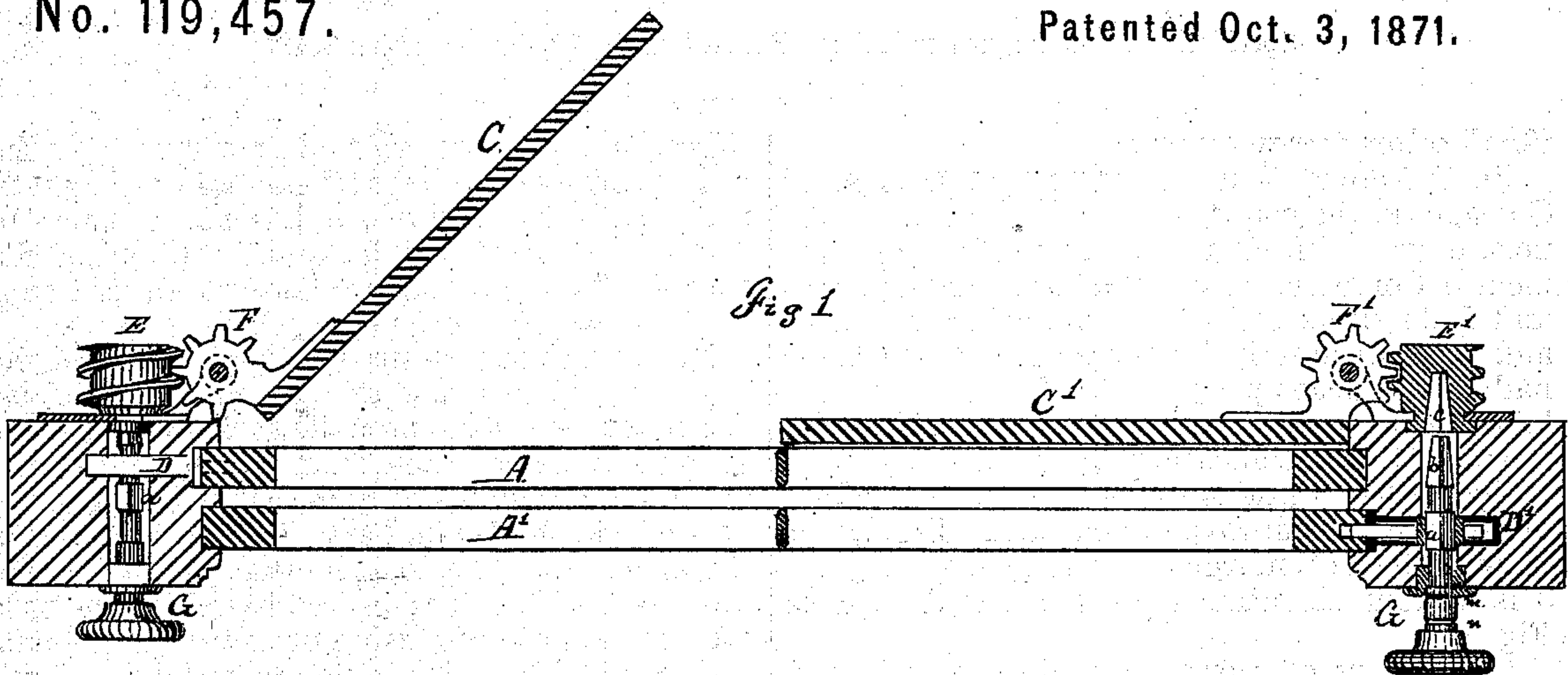


Fig 3

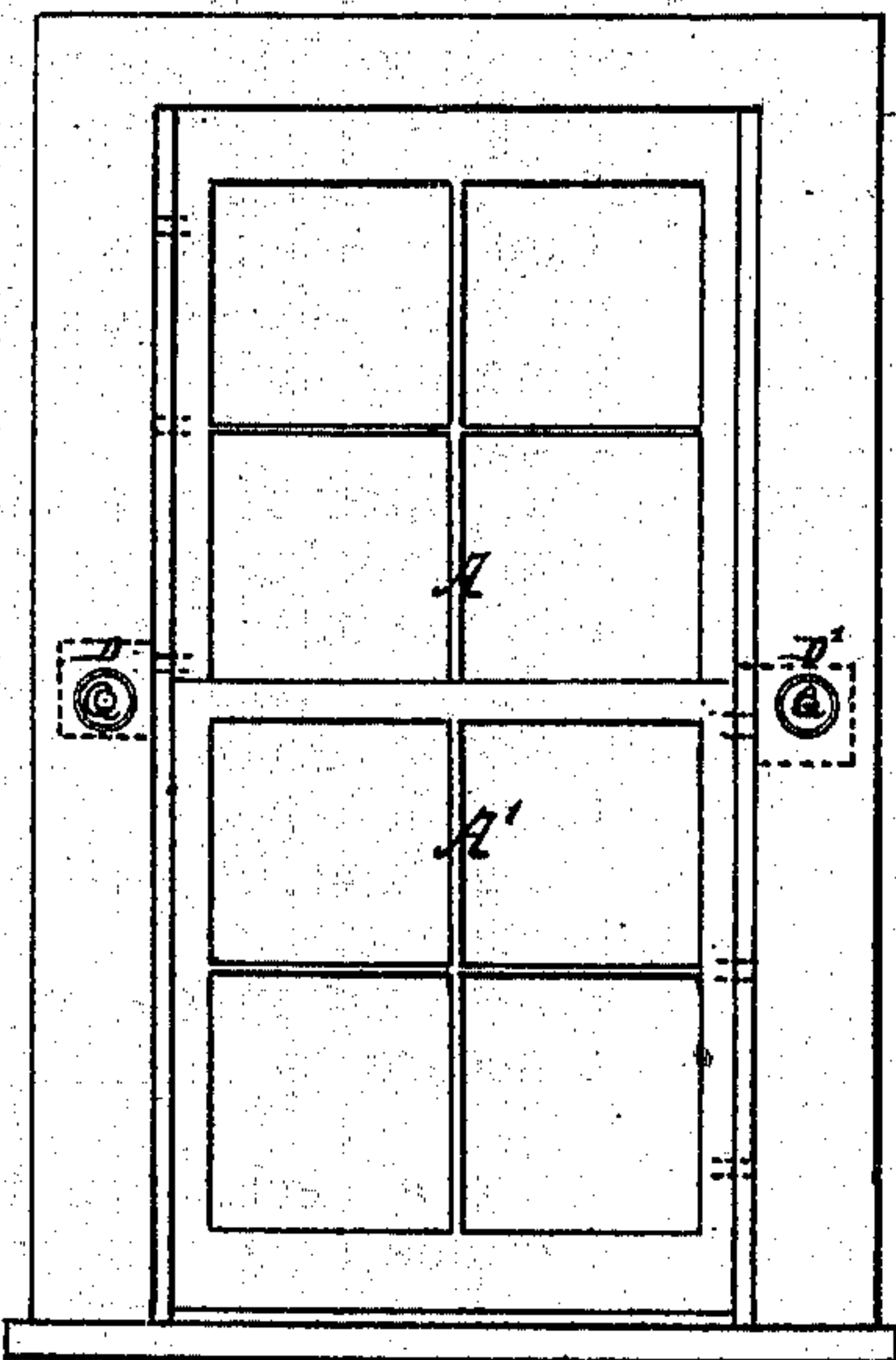


Fig 2

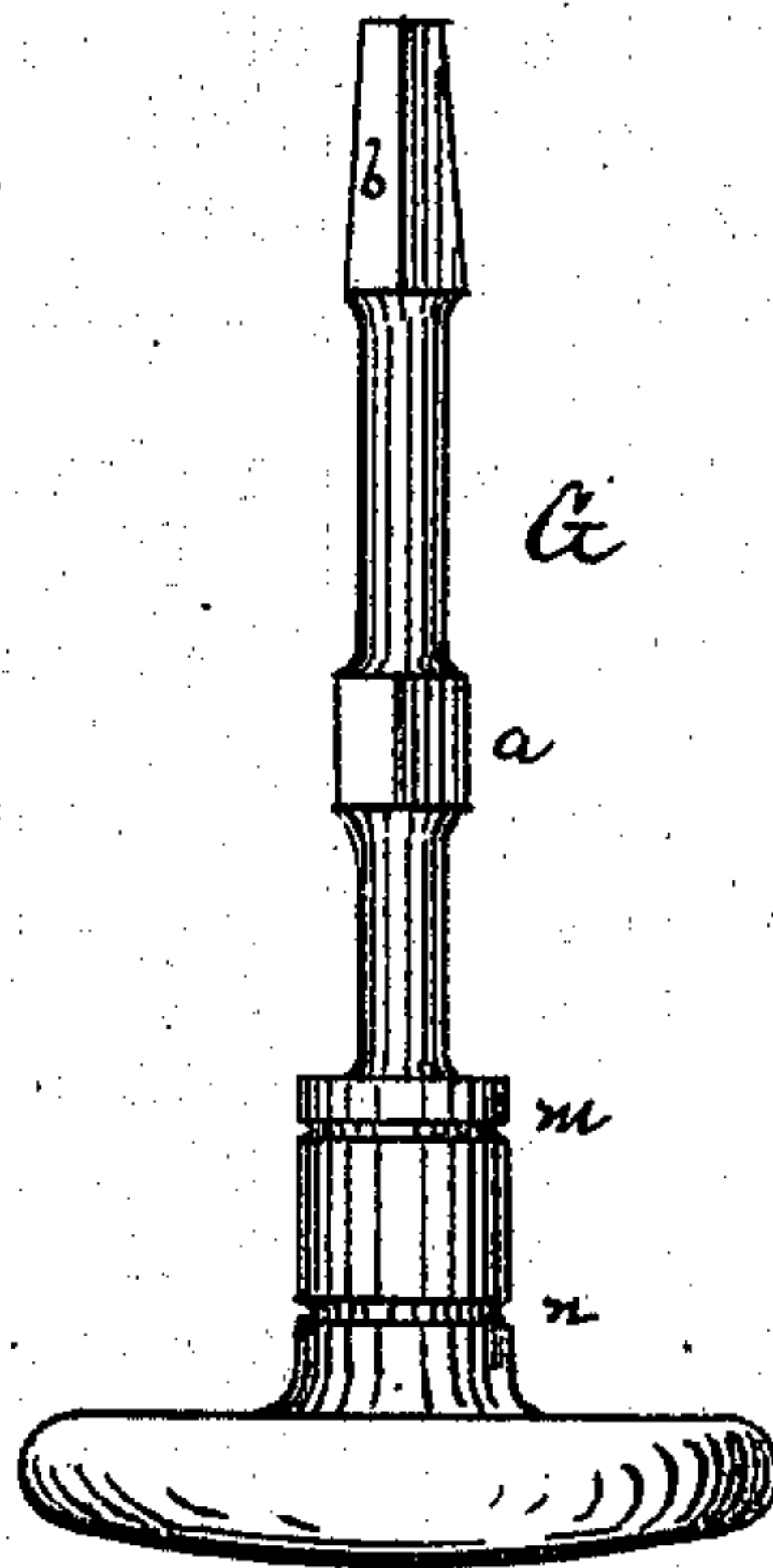
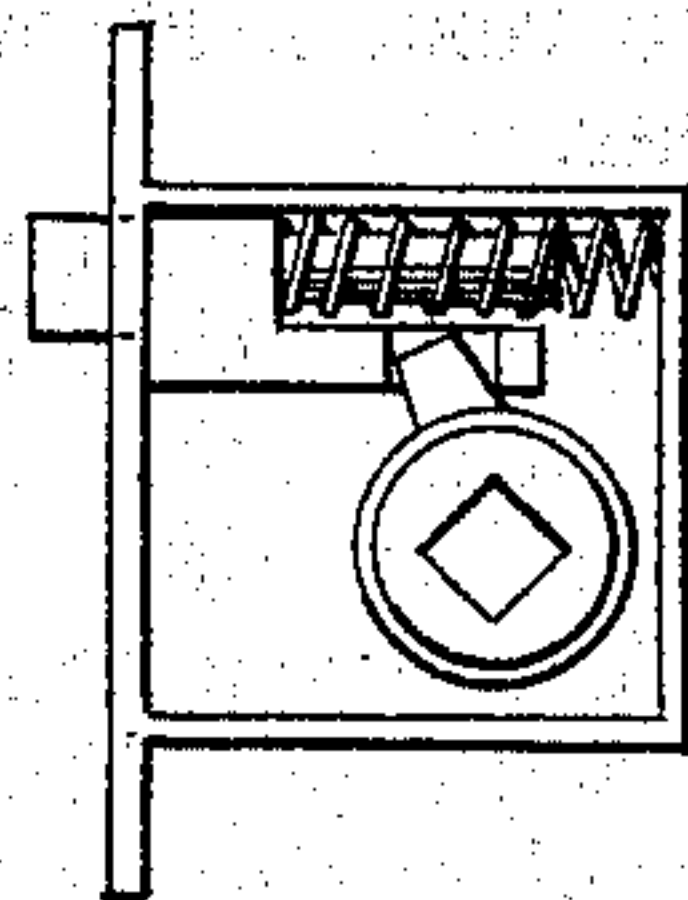


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

LOUIS GATHMANN, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN COMBINED SASH-HOLDERS AND BLIND-OPENERS.

Specification forming part of Letters Patent No. 119,457, dated October 3, 1871.

To all whom it may concern:

Be it known that I, LOUIS GATHMANN, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Combined Sash-Lock and Blind-Opener; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a horizontal section of a window fitted with my improved apparatus. Fig. 2 is a view of the key enlarged and detached, and Fig. 3 is a front elevation upon a reduced scale of Fig. 1.

Like letters of reference made use of in the several figures indicate like parts.

This invention relates to a combined sash-lock and blind-opener so constructed and arranged that a single spindle or shaft may be caused at pleasure either to open or close the blind, or to unlock the window-sash. And it also relates to a novel spindle or key for accomplishing the above result, as will presently more at length appear.

To enable those skilled in the art to make and use my invention I will proceed to describe the same with particularity, making use in so doing of the aforesaid drawing.

A A¹ are respectively the upper and lower sash of a window, fitted to move in the ordinary grooved casing or frame B. C C¹ are the two leaves of a blind, hung upon hinges from the casing in the usual manner. D D¹ are two spring-locks, similar to those commonly employed upon doors, except that the spindle and knob are not permanently connected thereto. The force of the spring in said locks is exerted to hold the bolt shut or extended, and the usual rectangular aperture for the reception of the spindle being left with no spindle therein. The bolts from these locks engage the upper and lower sashes and hold them at any given position. E E¹ are screws fitted to turn in proper bearings, and to engage the fixed pinions F F¹, respectively, which are rigidly connected to the leaves of the blind, so that when the screws are revolved the blinds are opened or closed, as the case may be. G is a detachable spindle or key, furnished with a knob or handle, *g*. The shaft of this spindle is made of a less diameter than the square apertures in the spring locks D D¹, so that said shaft

will pass freely through said apertures. At the point *a*, however, about at the middle of the shaft, it increases in diameter, and is made square to fit the aperture in the lock, and the end of the shaft is also made square, as at *b*, to fit a rectangular socket, *c*, or opening in the screws.

Now, when it is desired to open the blind the key or spindle is inserted far enough to cause the square end *b* to enter the socket *c*, when the screw may be operated from the interior of the apartment by simply turning the knob; the round part of the shaft will be at this moment within the aperture of the lock, so that the sash is not unlocked. When it is desired to unlock the sash for the purpose of raising or lowering the window, the knob and spindle are withdrawn until the square portion is within the aperture, when, by turning the knob, the bolt is operated and the sash disengaged. It will be seen that the lock for the upper sash is at a greater distance from the inner face of the casing than is that of the lower sash, so that in operating the upper sash-lock the portion *b* of the spindle engages the lock, while in operating the lower sash-lock the portion *a* is engaged.

For convenience in adjusting the spindle to the proper position two grooves are cut around the shank of the knob, the inner groove *m* indicating that the spindle is in position to operate the sash-lock, and the outer groove *n* that it is in position to operate the blind-opener, the grooves at each operation being brought flush with the scutcheon *o* upon the casing.

Having thus described my invention, what I claim and desire to secure by Letters Patent, is—

1. The combination of a mechanism for opening and closing the blinds of a window with a sash-lock or detent, when so arranged and constructed that both may be operated by one key or spindle, substantially as specified.

2. The combination of the screws E, pinions F, sash-lock D, and spindle *g*, substantially as specified.

3. The spindle G, made with the square enlargement *a* and the square point or enlargement *b*, and intervening round spaces, substantially as specified and shown.

LOUIS GATHMANN.

Witnesses:

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