

(No Model.)

J. I. BARINGER.

SASH FASTENER.

No. 323,998.

Patented Aug. 11, 1885.

Fig. 1.

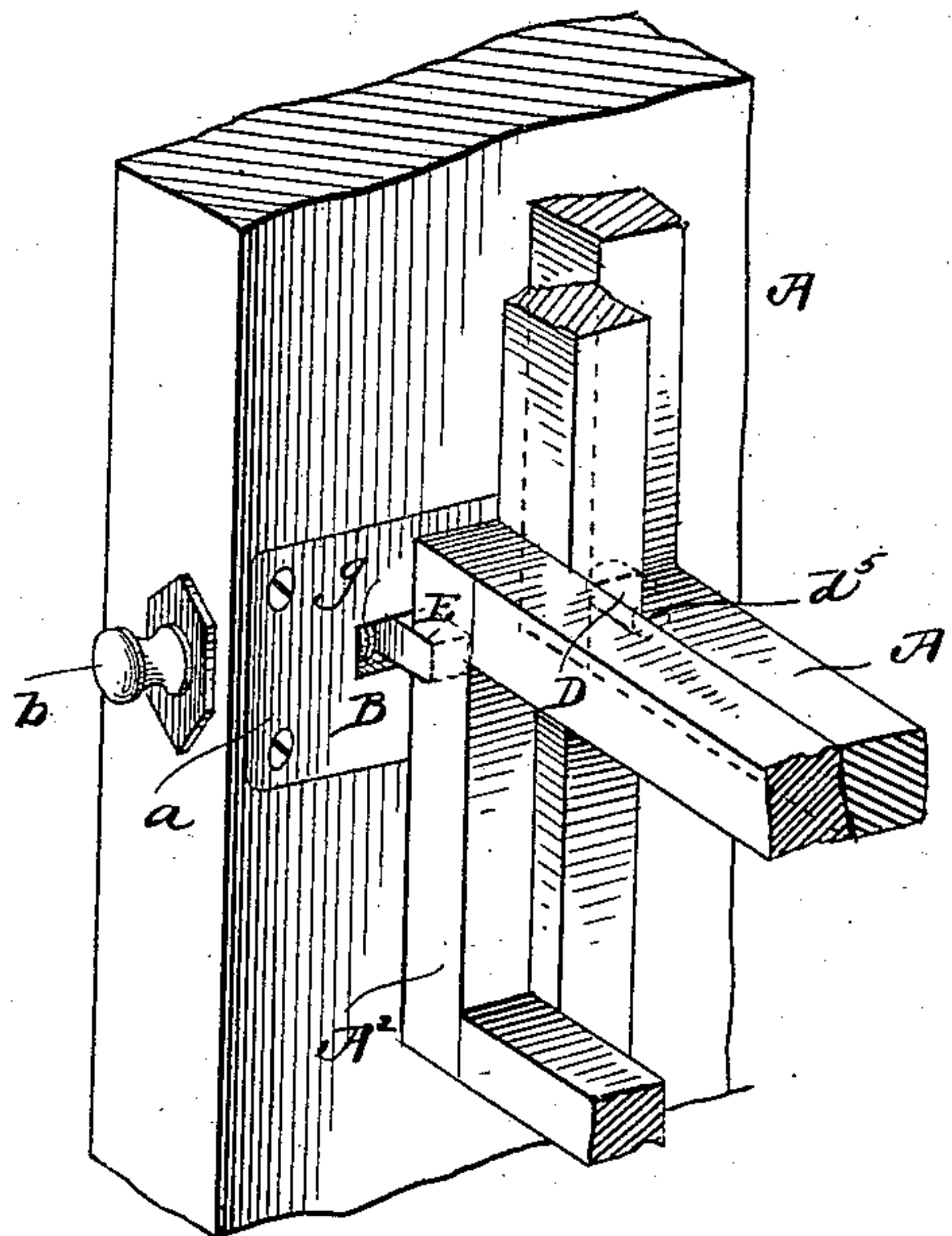


Fig. 2.

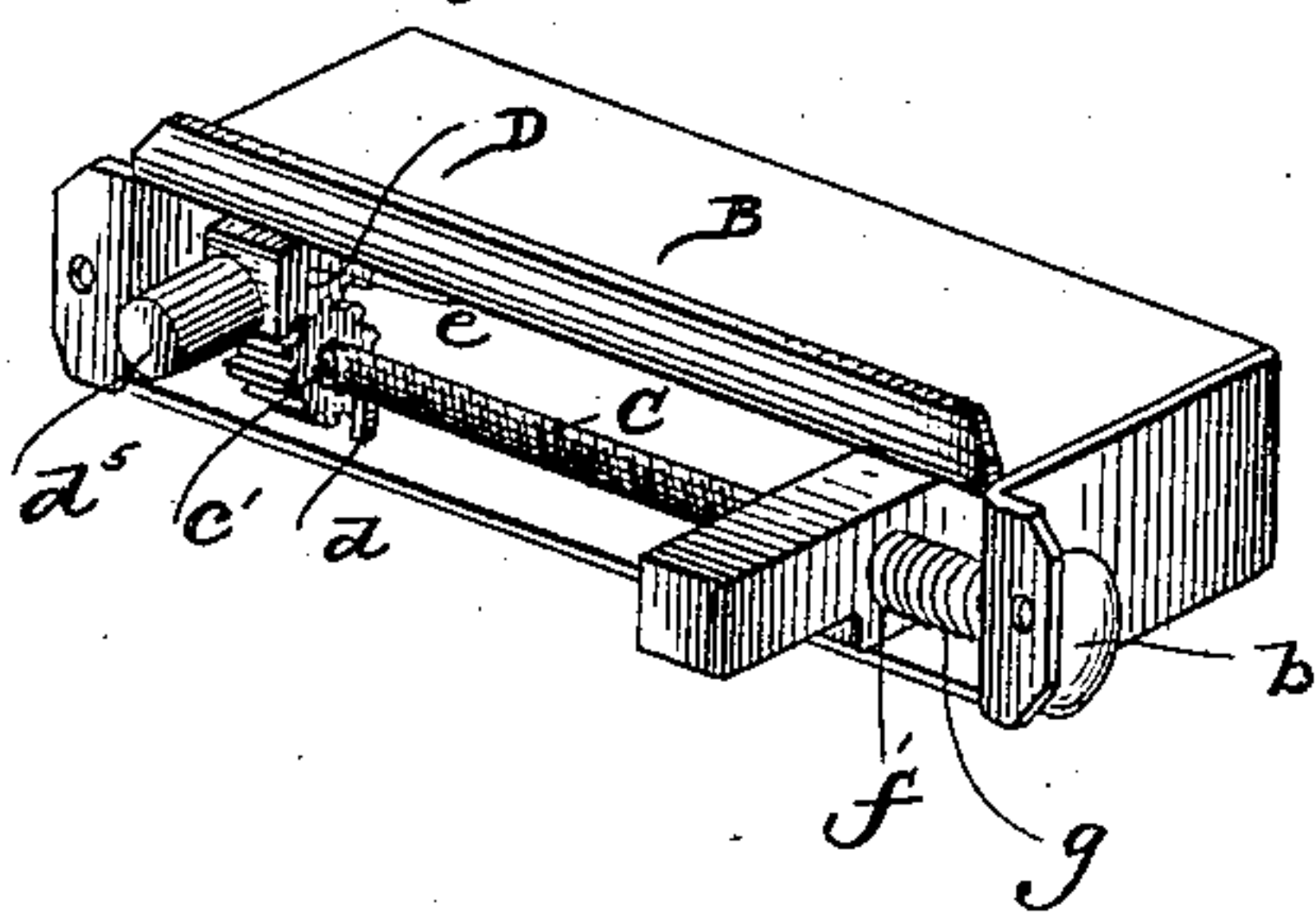
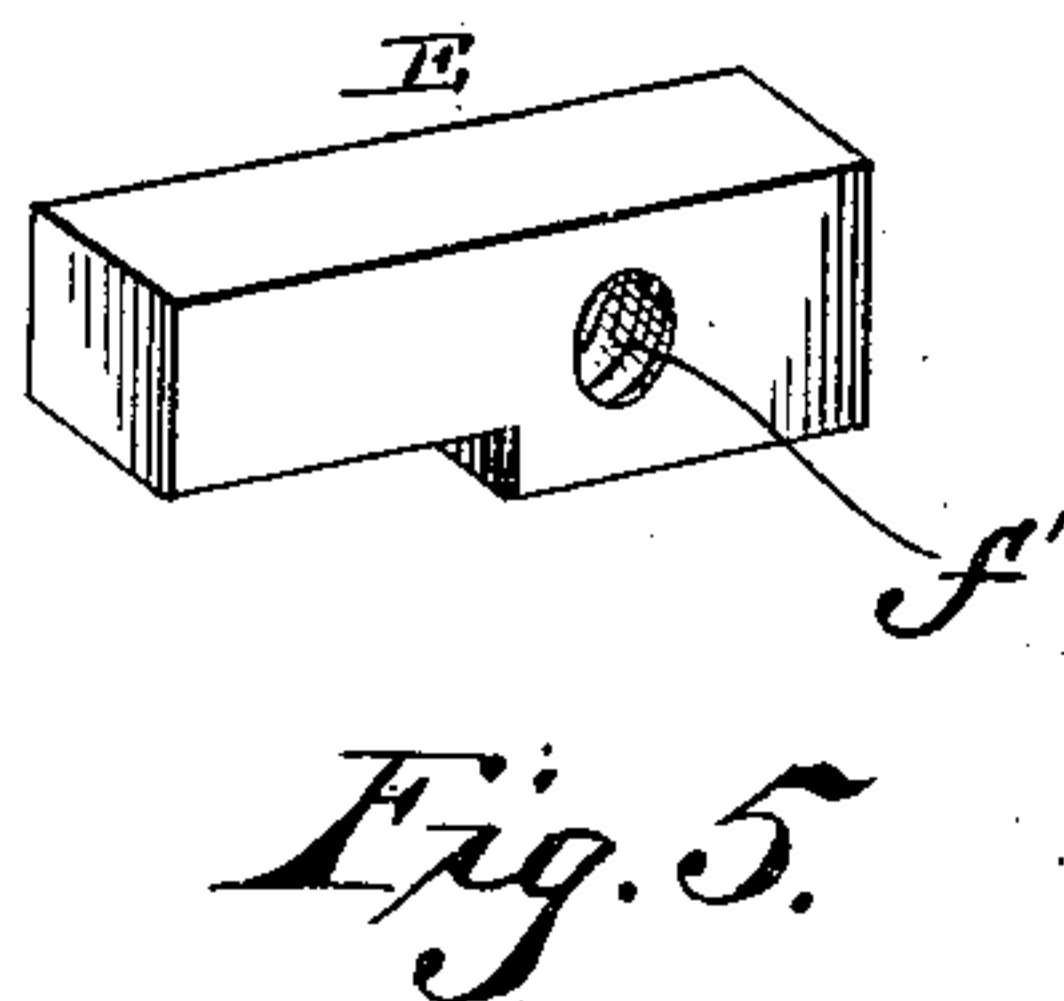
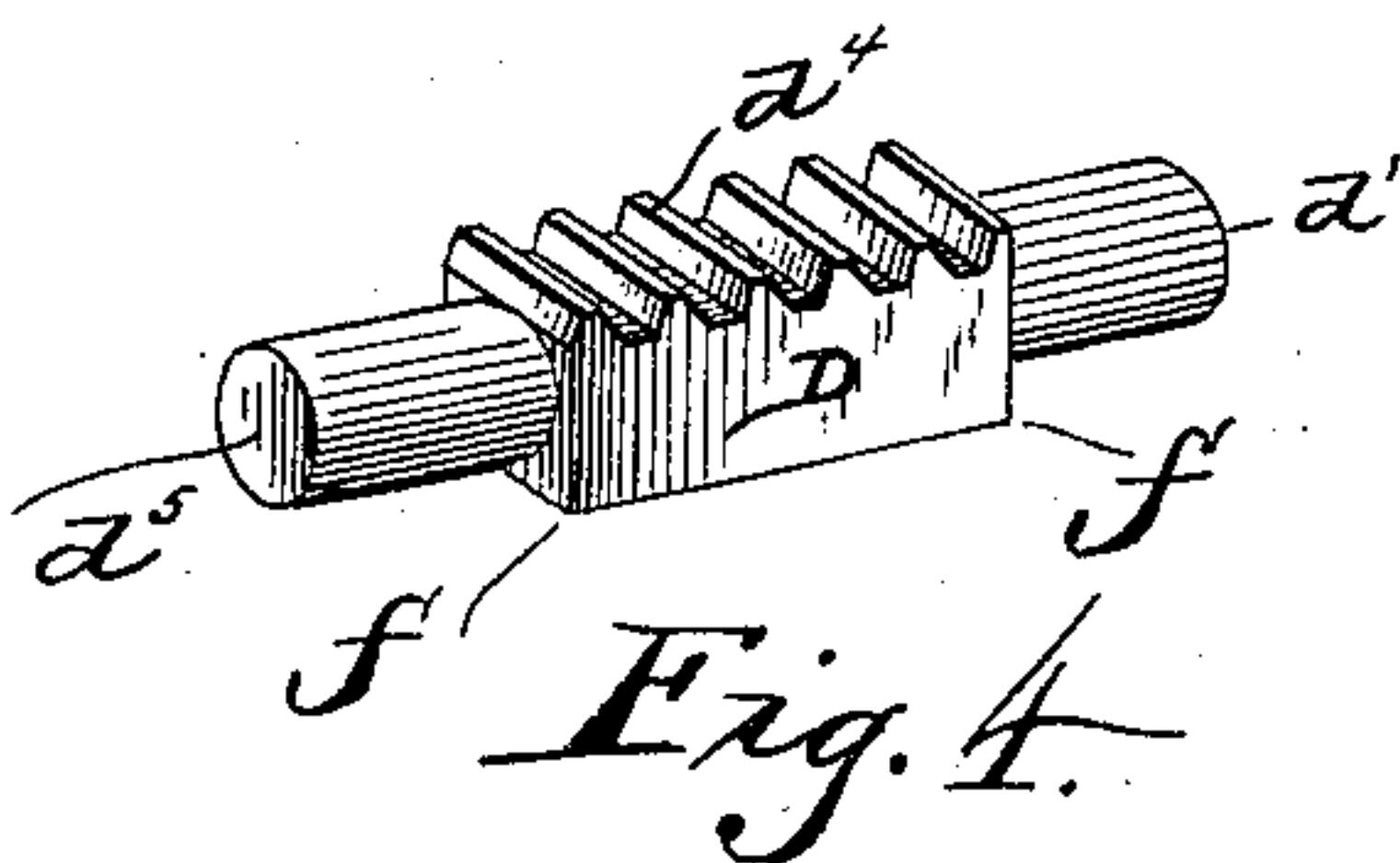
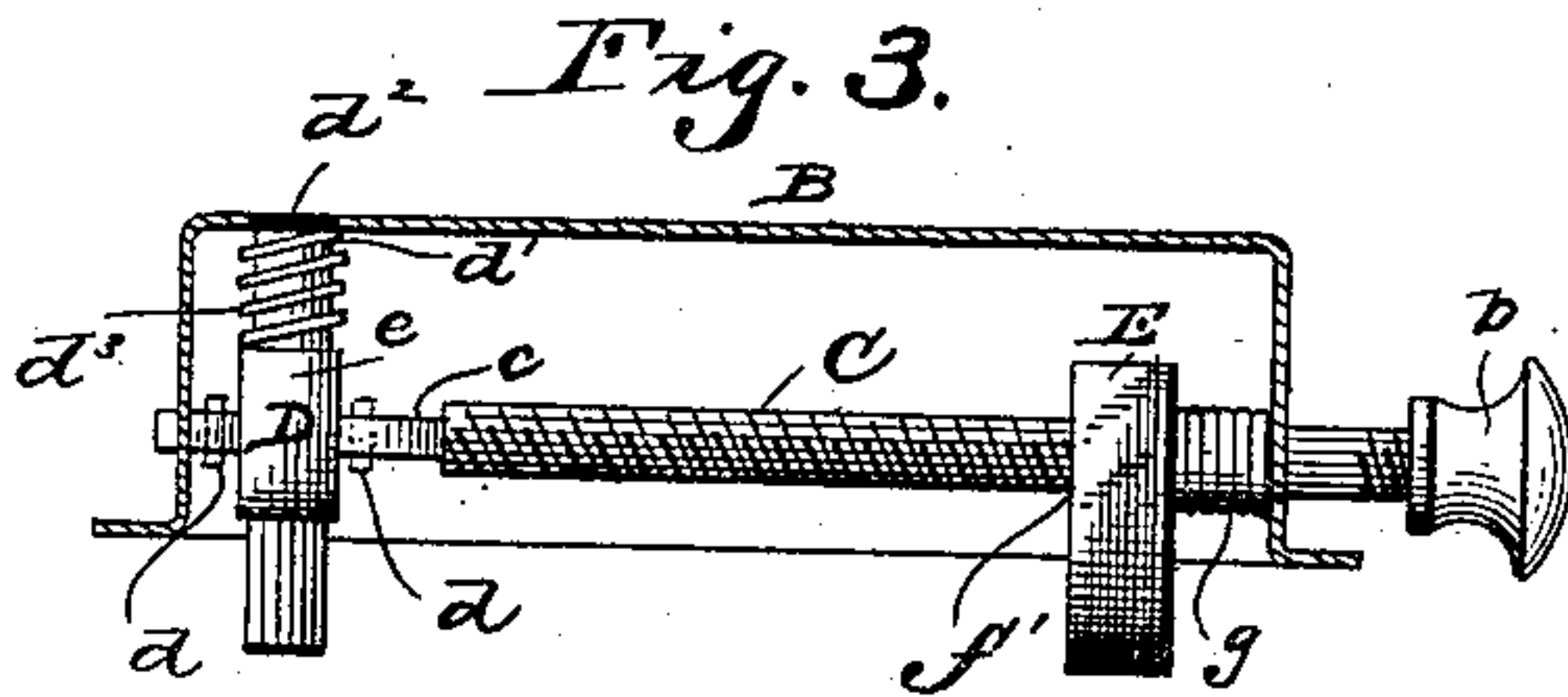


Fig. 3.



WITNESSES

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JOHN I. BARINGER, OF WATERFORD, NEW YORK.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 323,998, dated August 11, 1885.

Application filed March 14, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOHN I. BARINGER, a citizen of the United States, residing at Waterford, in the county of Saratoga and State of New York, have invented a new and useful Improvement in Sash-Holders, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to a combined sash holder and lock; and it has for its object to so construct and arrange the several parts composing the lock that both sashes may be operated by one bar or rod.

A further object of the invention is to provide a device of the character mentioned, which shall be simple in its construction, effective in its operation, one that may be readily applied, and will be strong and durable.

With these ends in view the invention consists in the combination, with a suitable casing, of a bar or rod carrying devices for locking the upper and lower sashes of a window, and adapted to be operated to allow either of the sashes to be raised or lowered independent of the other.

The invention further consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a window-frame, showing my improved holder and lock applied thereto. Fig. 2 is a perspective view of the holder and lock detached, the casing being broken away to show the arrangement of parts. Fig. 3 is a horizontal section. Fig. 4 is a detail view of the bolt for locking the upper sash, and Fig. 5 is a detail view of the bolt for locking the lower sash.

In the accompanying drawings, in which like letters of reference indicate corresponding parts in all the figures, A represents the window-frame, and A' A², respectively, the upper and lower sashes thereof. The upper sash, A', is provided on one of its vertical edges with a series of holes or openings arranged at suitable distances apart, while the lower sash, A², is provided on its front side, on one of the side rails thereof, with a series of notches or recesses, which are preferably rectangular in form, and are located on the

same side of the sash as the openings of the upper sash, A'.

B represents a casing, which is let into the frame A on the side at which the sashes are recessed. The said casing B is provided with a front plate, a, which has recesses or openings for the passage of the holding and locking bolts to the sashes, as will be further described, and is also provided with holes or openings for the passage of screws or equivalent fastenings for the attachment of the casing to the window-frame.

Within the casing B is mounted a rod, C, the ends of which are rounded and have bearing in holes or openings formed in the ends of the casing. On one of the ends of said rod C is attached a thumb-piece, b, by which said rod may be operated. The other end of the rod C extends a slight distance through and beyond the end of the casing, thus allowing the bar to be moved outwardly a slight distance without detaching the end of the same from its bearing. The rod C within the casing, adjacent to the end which extends beyond the same, is squared, as shown at c, and upon said squared portion of the rod or shaft is mounted a pinion, c', which is provided with a square opening to receive said rod or shaft. The squared portion on the rod or shaft is longer than the width of the pinion, so that if said rod or shaft is moved or drawn outwardly the pinion, which is loose thereon, will not be detached therefrom. The said pinion is held in place against movement with the rod when drawn outwardly by pins d extending outwardly from the floor or bottom of the casing A.

D represents a bolt, which has rounded ends, and is provided midway said ends with a squared portion, e, forming shoulders f. The end d' of the bolt D fits an opening in the wall d² of the casing, and upon said end d' is a spiral spring, d³, which bears against the squared portion at one end, and against the side wall, d², of the casing at its other end. The said bolt D is provided on the under side of its squared portion e with a series of teeth, d⁴, which are adapted to engage the pinion c', and the end d⁵ of said bolt is adapted to engage any one of the series of openings in the edge of the upper sash.

It will be seen that by means of the spiral spring bearing against the shoulder on the bolt D said bolt will be held in engagement with one of the openings of the upper sash, and to remove it therefrom, to allow said sash to be raised or lowered, the rod or shaft C is turned by means of the thumb-piece *b*, which causes the pinion *c'* to be turned, which meshes with the teeth on the squared portion of the bolt D, and removes the same from engagement with the upper sash. As soon as said thumb-piece *b* is released the bolt is immediately forced into engagement with one of the openings of the upper sash by means of the spiral spring mounted on the end *d'* thereof.

E represents a bolt, the end of which extends through a slot or opening in the casing, and is adapted to engage any one of the series of openings on the lower sash. The said bolt E is provided with a threaded opening, *f'*, to receive the threaded portion of the rod or shaft C, and is located on said shaft or rod adjacent to the end opposite from that at which the bolt D is located. A spiral spring, *g*, is located on said rod or shaft C between the bolt E and the end wall of the casing, thus forcing and holding said bolt in engagement with one of the notches of the lower sash. By threading said shaft, and providing the bolt E with a threaded bearing opening, the said shaft or rod may be turned to operate the bolt D without moving the bolt E. Further than this, the threads support the bolt E in a position on a line with the opening of the lower sash when it is withdrawn from engagement therefrom, which would not be the case were said shaft smooth, as the end of said bolt E would drop below the opening and would not engage any of the openings when released.

From the above description it will be seen that the devices for locking and holding both sashes are controlled and operated by a single part; that the device occupies but little space,

is simple in its construction, effective in its operation, and strong and durable.

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

1. In a combined sash holder and lock, the casing, in combination with a rod journaled therein and having both a longitudinal and a rotary movement, a locking-bolt arranged on the rod and actuated by the longitudinal movement thereof, and a second locking-bolt independent of the rod and operated by the partial turning of the same, as set forth.

2. In a combined sash lock and holder, the combination, with a casing, of a rod having a bolt mounted thereon, and a spring on said rod between the bolt and casing, said rod having an endwise movement, substantially as set forth.

3. In a combined sash lock and holder, the combination, with a casing, of a rod having bearing therein, a bolt on said rod, a pinion mounted on a squared portion of the rod, and a bolt having bearing in the sides of the casing, and a series of teeth to engage the pinion, substantially as set forth.

4. In a combined sash holder and lock, the combination, with a casing, of a threaded rod mounted therein and adapted to be moved endwise, a bolt on said rod, a spiral spring bearing against said bolt, a pinion mounted on a squared portion of the shaft, pins bearing against the sides of the pinion, a bolt having a series of teeth to engage the pinion, and a spring bearing against said bolt, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JOHN I. BARINGER.

Witnesses:

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ELISHA D. BENEDICT.