

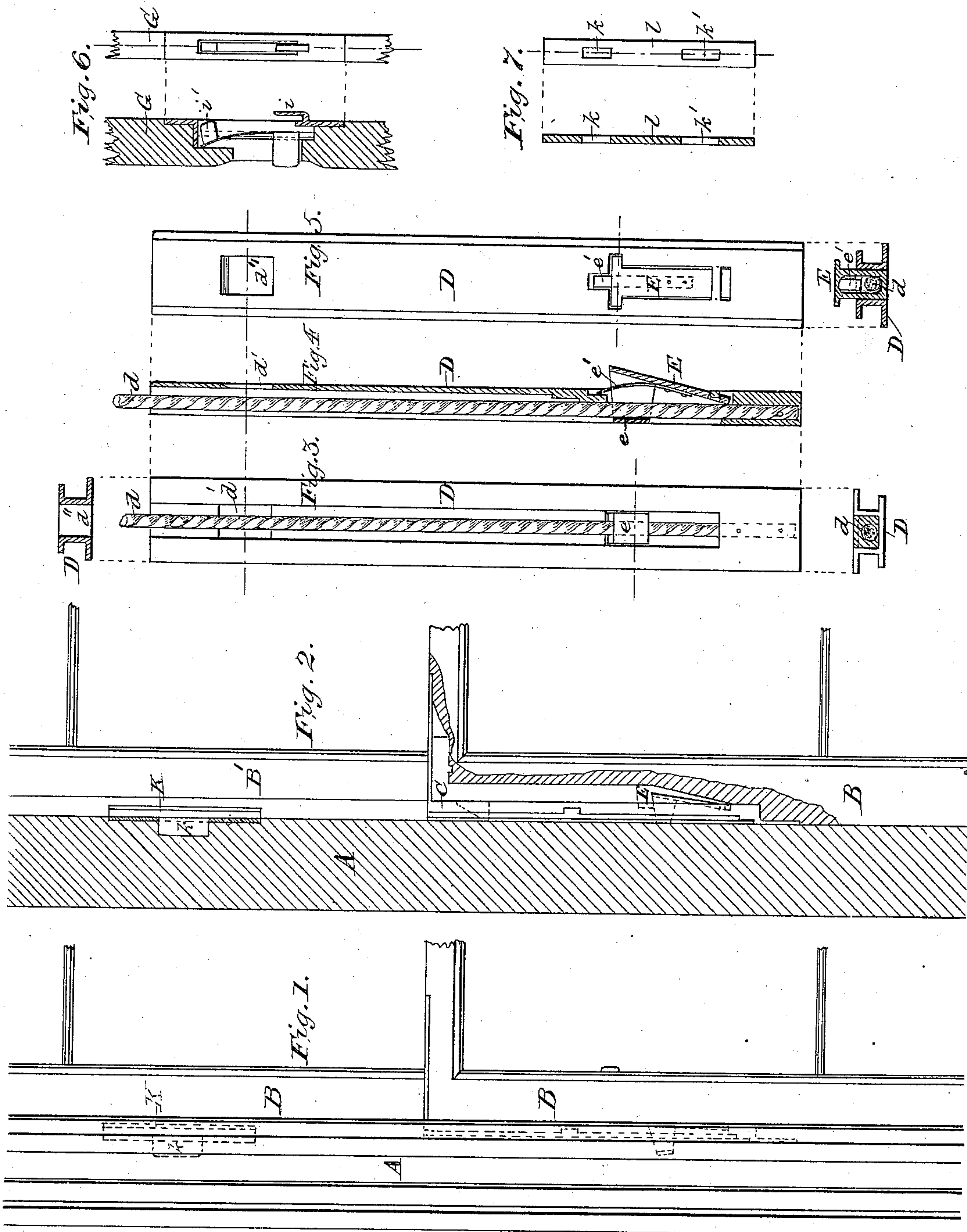
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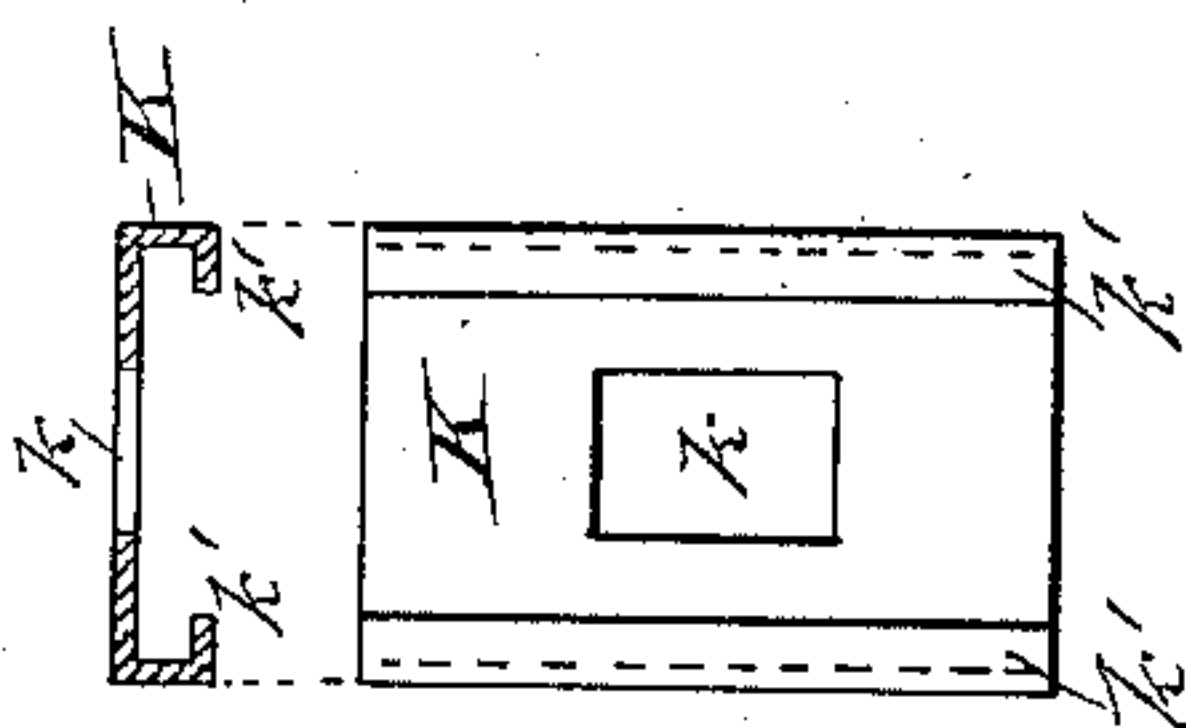
T. VOLLTEN.
SASH CORD FASTENER.

No. 365,654.

Patented June 28, 1887.



Witnesses:
J. H. Hughes
Louis Beyer



Inventor:
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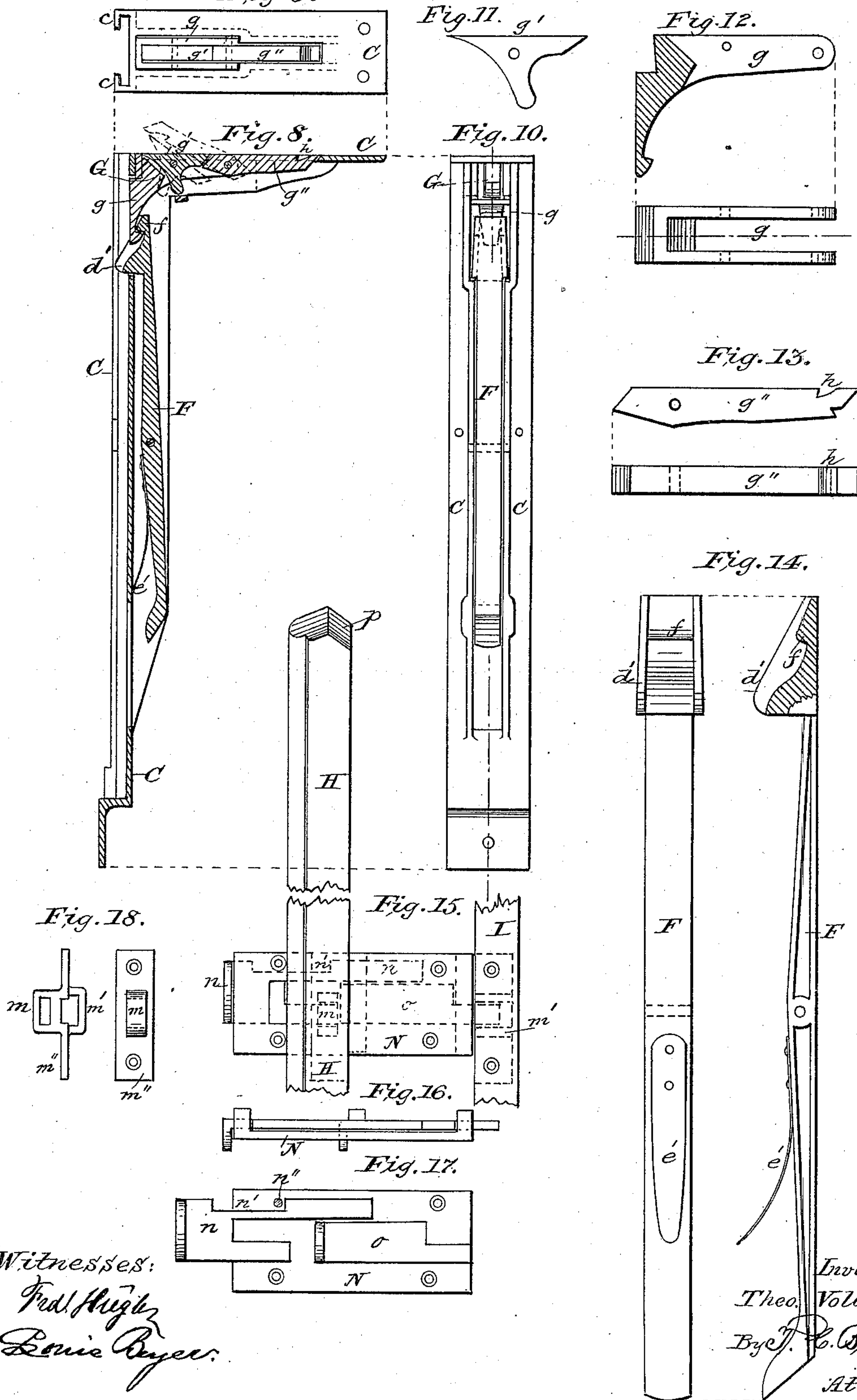
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T. VOLLTEN.
SASH CORD FASTENER.

No. 365,654. *Fig. 9.*

Patented June 28, 1887.



UNITED STATES PATENT OFFICE.

THEODORE VOLLTEN, OF WASHINGTON, DISTRICT OF COLUMBIA.

SASH-CORD FASTENER.

SPECIFICATION forming part of Letters Patent No. 365,654, dated June 28, 1887.

Application filed September 2, 1886. Serial No. 212,565. (Model.)

To all whom it may concern:

Be it known that I, THEODORE VOLLTEN, having declared my intention of becoming a citizen of the United States, residing at Washington city, in the District of Columbia, have invented certain new and useful Improvements in Window Attachments; 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 improvements in attachments for window sashes and frames; and the object of my invention is to produce devices by which the sashes of windows can be easily detached from the sash cords and weights for removing them from their position in the window-frame for the purpose of cleaning, repairing, glazing, painting, &c., without the inconvenience of handling them and the expense of breaking the window-panes now often occurring; also, to avoid the danger to persons sitting on the window-sills on the outsides of buildings for cleaning, &c., and, finally, to provide means by which the supports for the sash-cords and weights can be held in position in the frame until released to be applied to the sashes again.

The invention consists in the construction of certain details and arrangement of parts, as will be more fully described hereinafter, and specifically pointed out in the claims, reference being had to the accompanying drawings and the letters of reference marked thereon.

Like letters indicate similar parts in the different figures of the drawings, in which—

Figure 1 represents a side elevation of part of a window and sash having my attachment applied. Fig. 2 is a sectional elevation of the same. Figs. 3, 4, and 5 are detail views of the supporter, to which the sash cords and weights are secured. Figs. 6 and 7 are detail views of a locking device for the sash-strips on the window-frame. Fig. 8 is a vertical section. Fig. 9 is a top plan view. Fig. 10 is a front elevation of an angular corner latching-piece. Figs. 11 to 14, inclusive, are detail views of the latch mechanism for the supporter and sash-cords. Figs. 15 to 18, inclusive, are detail views of a modification of the locking device for the window-strips.

In the drawings, A represents part of the window-frame, and B B' are the window-sashes. An angle-piece, C, is countersunk into each upper corner of the sashes, and is provided with guides *c*, in which is the grooved supporter D, to which the sash cords and weights are secured, as at *d*. The cords pass upward through an eye or loop, *e*, of a hinged catch, E, having a spring, *e'*, behind it to hold it against the cords until released by a projection, *d'*, on the pivoted piece F, attached to the piece C.

The piece F has a recessed head with a shoulder, *f*, with which one end of a combination-latch, G, engages, said latch being composed of the parts *g g' g''*. The parts *g g'* are pivoted together and form a locking device, bearing against each other with their beveled ends, and the part *g* is liberated when the latch *g''* is moved into the position indicated by dotted lines in Fig. 8, a notch, *h*, Fig. 13, being provided for inserting a finger-nail, when desired. A projection, *d'*, enters into a hole, *d''*, in the supporter D and prevents its detachment from the sash until released by the latch G.

It will be understood that the sashes must be recessed to receive the angle-piece and permit the free movement of its parts.

The front and rear window-strips are made in two parts, the upper part being secured as usual, while the lower part is beveled at its upper end, as shown at *p*, while the lower end is held by a projection, *i*, engaging with a hole, *k'*, in the plate *l*, secured in the window-frame, and a spring-latch, *i'*, that enters the hole *k*, Figs. 6 and 7. As a modification of this device, I prefer to use the devices shown in Figs. 15 to 18, in which the front window-strip, H, is beveled, as at *p*, and secured by a flat bolt, *n*, on the plate N. The bolt *n* is provided with a notch, *n'*, into which one of the screws, *n''*, fits, and prevents the withdrawal of said bolt. It enters a staple, *m*, on the plate *m''*, secured to the window-frame, and prevents the removal of the strip H until released. The rear window-strip, I, is similarly secured in place by a bolt, *o*, on plate N, arranged below the bolt *n*, by which its withdrawal is prevented from the staple *m'* until the bolt *n* is withdrawn, as it comes in contact therewith. The staple-plate *m''* is reversible, so as to be used for both strips.

A guide and holding piece, K, secured to the window-frame, is provided with an opening, *k*, and serves to hold the supporter D by the eye *e* of the clamp E engaging with said opening until released. Said plate K is secured at a proper distance from the top of the window-frame, and is provided with a flange, *k'*, on each side, with which the flanges of the supporter D engage, and when the sash is raised the part *e* of the catch E is forced into the opening *k* and holds the catch E until released by the latch mechanism.

The operation is as follows: The window-sash being down and it is desired to remove it for cleaning, &c., the bolt *n* is first withdrawn and the front window-strip, H, removed. The latch G is then released by placing the part *g''* in position shown by dotted lines in Fig. 8, which releases the supporter, and the sash is raised until it comes in contact with the upper part of the frame. The sash is then lowered again and the supporter D, with cords and weight, is detached from the sash and held by the catch E and eye *e*, which engages with the opening *k* of the plate K, and the sash can then be removed. The bolts are represented locked in Fig. 15 and unlocked in Fig. 17. The upper sash is manipulated in the same manner as the lower sash, being, however, first lowered to loosen the latch G, and the bolt *o* is withdrawn in addition to bolt *n*, and the operation is repeated as with the lower sash.

When it is desired to replace the sashes, the upper one is first introduced in place, the rear strip inserted and secured by the bolt *o*. The latch G is then locked and the sash raised to its position in the window-frame, and the cords and weights will again be automatically secured to it. In a similar manner the lower sash is manipulated, the sash-cords and weights

secured to it, and the bolts *n* inserted into the staples *m*, which lock the front strip, H.

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

1. In window attachments, the detachable supporter D, having spring-catch E, and cords and weights attached to it, in combination with a plate, K, and latch mechanism G, substantially as specified.

2. The combination of a supporter, D, having sash cords and weights attached to it, and a spring-catch, E, with angle-pieces C, provided with pivoted spring-catches F, having projection *d'*, and a latch, G, having parts *g g' g''*, and plates K, substantially as and for the purpose set forth.

3. The combination of the supporters D for the cords and weights, provided with spring-catch E, having eyes *e*, to engage with the openings *k* in plates K, with latch mechanism G on the sashes, as specified.

4. The latch G, having parts *g g' g''*, in combination with spring-catches F, supporters D, and plate K, provided with opening *k*, all as set forth, and for the purpose specified.

5. The combination of the sashes of a window, having angle-pieces C, provided with spring-catches F, and latches G, with detachable supporters D, provided with spring-catches E, the plates K, and the front and rear strips, H I, having staples *m m'* and the bolts *n* and *o*, all arranged substantially as and for the purpose set forth.

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

THEODORE VOLLTEN.

Witnesses:

FRED. HUGHY,
LOUIS BEYER.