(No Model.)

C. E. ANGELL.

SASH FASTENER.

No. 453,895. Patented June 9, 1891.

Fig. 1.

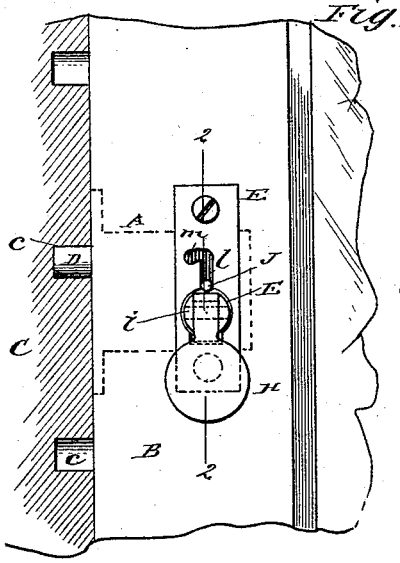


Fig. 2.

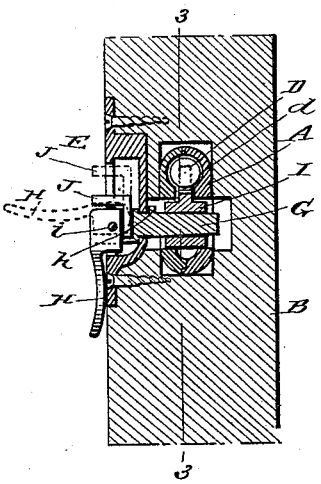


Fig. 3.

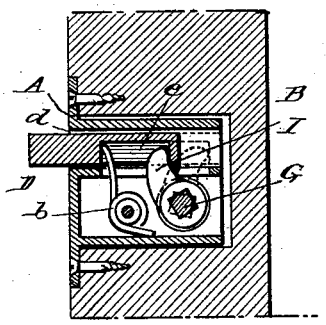


Fig. 4.

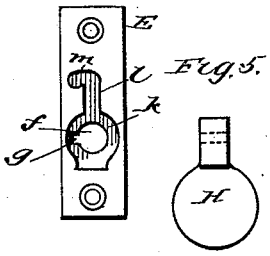
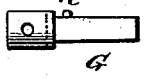


Fig. 5.

Fig. 6.

Fig. 7.



WITNESSES:

W. R. Davis.

C. Sedgwick

INVENTOR:

C. E. Angell

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES EDGAR ANGELL, OF SALT LAKE CITY, UTAH TERRITORY.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 453,895, dated June 9, 1891.

Application filed February 18, 1891. Serial No. 381,966. (No model.)

To all whom it may concern:

Be it known that I, CHARLES EDGAR ANGELL, of Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented a new Combination Sash Lock and Lift for Windows, of which the following is a full, clear, and exact description.

This invention consists in a device of novel construction for locking sliding window-sashes as against burglars and others and for lifting or moving the sash when unlocked, substantially as hereinafter shown and described, and more particularly pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a front view of a window-sash and window-frame in part with my invention applied. Fig. 2 is a section at right angles to the face of the sash upon the line 2 2 in Fig. 1. Fig. 3 is a section upon the line 3 3 in Fig. 2; Fig. 4, a face view of the escutcheon part of the lock or device. Fig. 5 is a face view of a thumb-piece forming the lifter hinged or pivoted to a key which controls the sliding bolt of the lock; Fig. 6, a face end view of the key, and Fig. 7 a longitudinal view thereof.

A is the lock-case, which is mortised into the outer marginal side of the sash B next to the window-frame C, up and down and within which the sash slides.

The lock comprises a bolt D, which is normally pressed outward by a spring *b* within the lock-case against the window-frame, so that it will shoot into or enter any one of a series of holes *c* in the window-frame and hold the sash at any desired height, to be determined by the position of the bolt-holes in said frame. The bolt D is preferably a round one, fitted to slide backward and forward within a correspondingly-shaped grooveway *d* in the lock-case back of the escutcheon E, which is arranged on the face of the sash.

The bolt D is held back when not required to engage with the holes *c*, or is disengaged from the bolt-hole in the window-frame when required to move the sash up or down by or through the operation of a combined key G and thumb-piece H, entered from the face of the sash within and through the escutcheon. The key is in the form of a bolt having a square shank, on which is fitted a cam or other suitably-shaped tumbler I, that passing through a slot in the grooveway *d* enters a longitudinal slot *e* in the bolt D to act upon the latter to draw it back when required, the spring *b* pressing against the front end of the slot *e* to shoot the bolt D forward when not restrained by the key.

To operate the key G, which occupies a transverse position relatively to the locking-bolt D, said key is turned axially in a given direction to slide or hold through the tumbler I the bolt D back, as shown by dotted lines in Fig. 3.

To fit the key to its place within and through the escutcheon, which latter is of box-like construction, the back of the escutcheon has a hole *f* in it adapted to receive the key through it and a notch *g* on the side of said hole to permit of a stud *h* on the key passing through it. The key having its stud *h* in line with the notch *g* is entered within and through the escutcheon and then turned to its permanent position, which puts the stud out of line with the notch, so that when the escutcheon is screwed home the key G is prevented from coming out.

The thumb-piece H is hinged and secured by a pivot-pin *i* to the forward end of the key G, and is let into the front of the sash or escutcheon therein, the inner end or hub portion of the thumb-piece being free to turn within the enlarged opening *k* in the front of the escutcheon, except when the key is locked by a vertically-sliding dog or catch J, passing through a hole in the key. This dog or catch is bent so as to be operated from the outside by its bent arm passing out through an upright slot *l*, in connection below with the opening *k* in the escutcheon and bent above to form a side notch *m*.

When the sash is locked, the dog or catch J is engaged with the key G, as above, which prevents the key from being operated to draw the locking-bolt D back, thus adding materially to the security of the lock by interference from the outside; but when it is not required to lock the sash the dog or catch J is lifted out of engagement with the key G and its outwardly-bent arm turned and dropped into

the side notch *m*, which holds the dog or catch J raised. The thumb-piece H may then be turned into a fixed approximately horizontal position, as shown by dotted lines in Fig. 2, and the same turned transversely or laterally to turn the key G and unlock the bolt D by the tumbler I. Said thumb-piece H, too, when thus raised, serves as a lifter of the sash to open or close it, as required.

A combined sash-lock and lift or lifter constructed as described secures a positive lock for the sash not easily opened from the outside and not dependent upon merely frictional contact, and is in no way dependent upon or affected by conditions of the weather or sprinkage of the parts. The lock, too, when applied has no detached parts, the whole contrivance being always in place and ready for instant use, the key controlling the locking-bolt being an attached part of the lock, and an easy manipulation either in the dark or light sufficing to operate the lock or lift the sash, as required.

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

1. A combined window-sash lock and lift consisting of a positive locking-bolt adapted to automatically engage with bolt-holes in the window-frame, an attached key for operating said bolt, a pivoted thumb-piece applied to the outer end of said key, adapted to operate the key and serving as a lift or lifter of the sash, and an adjustable dog or catch adapted to engage with the key to prevent the latter from turning to act upon the locking-bolt, substantially as specified.

2. In a sash lock and lift, the combination, with a sliding locking-bolt and a spring for shooting said bolt, of a rotatable key attached to said lock, arranged in transverse relation with the locking-bolt and provided with a tumbler for drawing back the latter, and a hinged pivoted thumb-piece attached to the forward end of said key, essentially as and for the purposes herein set forth.

3. In a sash lock and lift, the combination, with the lock-case A and its sliding bolt D, of the escutcheon E, having an opening *f* in its rear and side notch *g*, and the rotatable key G, provided with a locking or retaining stud *h*, substantially as described.

4. In a sash lock and lift, the combination, with the attached key G, which controls the bolt of the lock, of the escutcheon E, having a front opening *k* and an upright slot *l* in connection therewith, terminating above in a side notch *m*, the sliding dog or catch J, adapted to engage with the key and with the slot *l* and notch *m*, and the pivoted thumb-piece H, essentially as specified.

CHARLES EDGAR ANGELL.

Witnesses:
B. F. CUMMINGS, Jr.,
J. C. JENSEN.