

C. A. HUNT.
SASH FASTENER.

APPLICATION FILED OCT. 30, 1908.

938,584.

Patented Nov. 2, 1909.

Fig. 1.

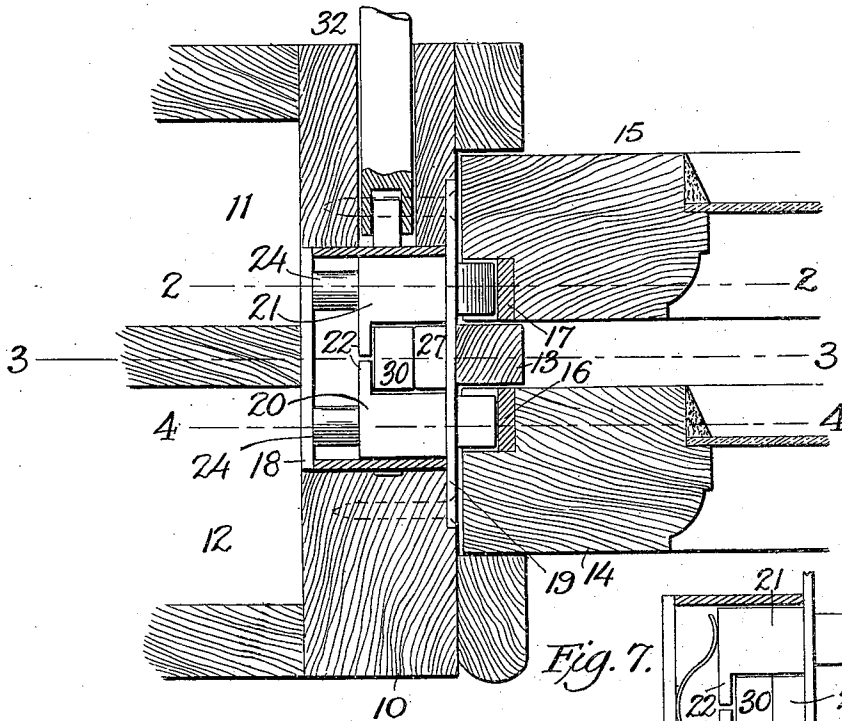


Fig. 2.

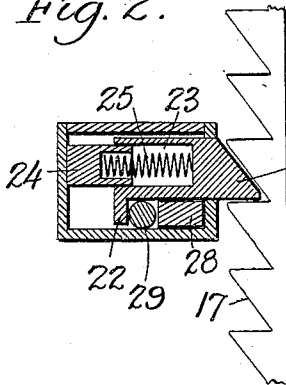


Fig. 3.

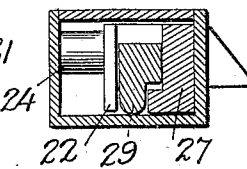


Fig. 4.

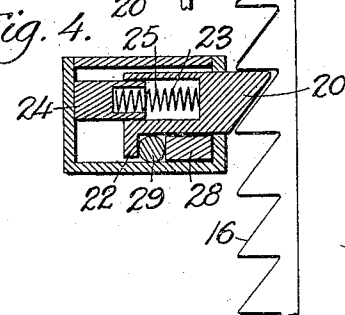


Fig. 5.

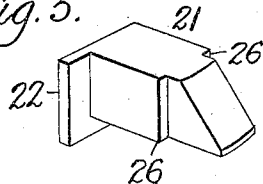
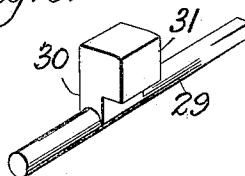


Fig. 6.



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SASH-FASTENER.

938,584.

Specification of Letters Patent.

Patented Nov. 2, 1909.

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To all whom it may concern:

Be it known that I, CHARLES A. HUNT, a citizen of the United States, residing at Newburgh, in the county of Orange and State of New York, have invented new and useful Improvements in Sash-Fasteners, of which the following is a specification.

This invention relates to sash fasteners and its object is to provide a compact and substantial device to be located in the window frame and be provided with bolts to engage racks on the sashes to prevent the movement of same in one direction as will be more fully explained in the following specification, set forth in the claim and illustrated in the drawing, where:

Figure 1 is a cross sectional view through a sash frame and the sashes of a window. Figs. 2, 3 and 4 are vertical sectional views on the lines 2—2, 3—3 and 4—4. Figs. 5 and 6 are detail views. Fig. 7 is a view of a modified form of fastener.

This fastener is designed to be of few parts, substantial and strong and to be of such dimensions as to be fitted into a mortise made in an ordinary window frame with the usual compartments 11 and 12 for the sash weights and a parting strip 13. The upper sash 14 and the lower sash 15 have on their edge adjacent to the frame, the rack bars 16 and 17 respectively with teeth having flat or horizontal sides and a reverse beveled side.

The fastener consists of a box 18 fitting in a mortise in the wall 10 of the frame, the depth of the box being identical with the thickness of the wall, and its outer side is a perforated plate 19 by which it may be attached to the frame. Within the box 18 are two outwardly pressed bolts 20 and 21 whose outer ends are beveled to conform with the teeth of their respective rack bars 16 and 17 while two sides of the rear end have a flange 22 projecting downward and toward each other. In the rear of the two bolts are recesses 23 in which are located cups 24 that confine coiled springs 25 to force the bolts outward into engagement with the rack bars, the forward ends of the bolts being reduced so that the shoulder 26 permits only the beveled end to extend beyond the plate 19.

A filling block 27 with lateral flanges 28 for the bolts to slide on is placed in the lower front corner of the box and directly back of same is the shaft 29 of the key carrying the bit 30 that occupies the space between the flanges 22 and the filling piece 27, the latter preventing the forward movement of the bit and has a broad flange 31 which prevents its dislocation and side movement into the space beneath the bolts. One end of the shaft 29 is squared so that an extension 34 may be fitted on the key to turn it and project beyond the side of the frame to be manipulated.

In order to further simplify the construction of the fastener the two cups 24 may be dispensed with and a flat spring 33, as shown in Fig. 7, take their place and bear upon the rear ends of the bolts.

The two bolts are normally extended by the springs engaging the rack bars and preventing the downward movement of the upper sash or the upward movement of the lower sash. By turning the key shaft, the rear movement of the bit forces back the bolts and when the bit is in a horizontal position the upper flat face being under pressure of the flanges of the bolts, remains in that position and prevents the return of the bolts to the outer position and the sashes are free to move up or down.

The beveled faces of the rack bars allow the sashes to be moved to their closed positions.

The compact construction of this sash fastener does not interfere with the operation of the sashes and particularly of the weights as has been the case with similar devices heretofore patented and in case it is desired to discontinue the use of the device the key is turned and the bit allowed to remain in its horizontal position, retracting the bolts. The extension 32 is withdrawn and the appearance of the window frame is not altered.

It is obvious that the parts may be otherwise arranged or modified without departing from the essential features shown.

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

In a sash fastener, the combination with a box adapted to fit in the wall of the window

frame, of a perforated plate carried by said box, of bolts within the box and having beveled ends fitting through the perforations formed in the box, sashes with rack bars for the bolts, cups fitting in the rear end of the bolts and inclosing springs, abutting flanges on the rear ends of the bolts, a key held against lateral movement and operating upon

the flanges, and a filling piece preventing the forward movement of the key.

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

CHARLES A. HUNT.

Witnesses:

JAMES F. DUHAMEL,
MAE W. CLINTON.