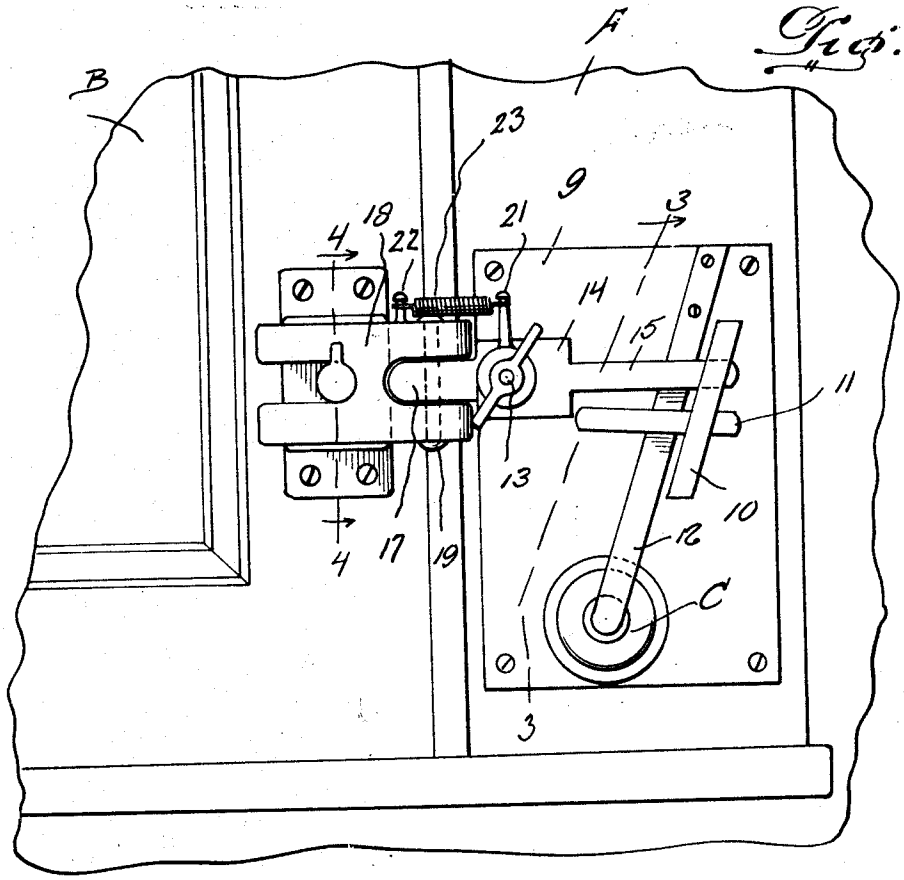
Oct. 2, 1928. 1,686,032

T. RANDON ET AL

COMBINED SASH LOCK AND SIGNAL SWITCH ACTUATOR

Filed June 24, 1927 2 Sheets-Sheet 1

Fig. 1.



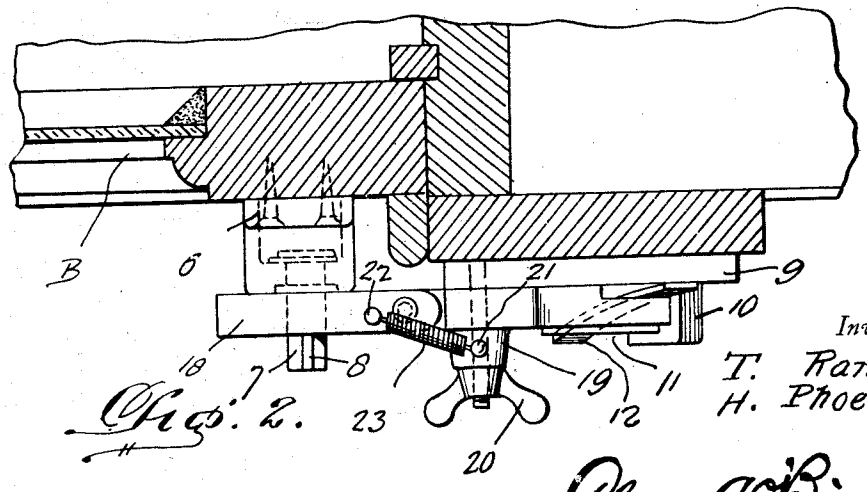




Fig. 2.

Inventor
T. Randon
H. Phoenix,

By Clarence A. O'Brien
Attorney

Oct. 2, 1928. 1,686,032

T. RANDON ET AL

COMBINED SASH LOCK AND SIGNAL SWITCH ACTUATOR

Filed June 24, 1927 2 Sheets-Sheet 2

Fig. 4.

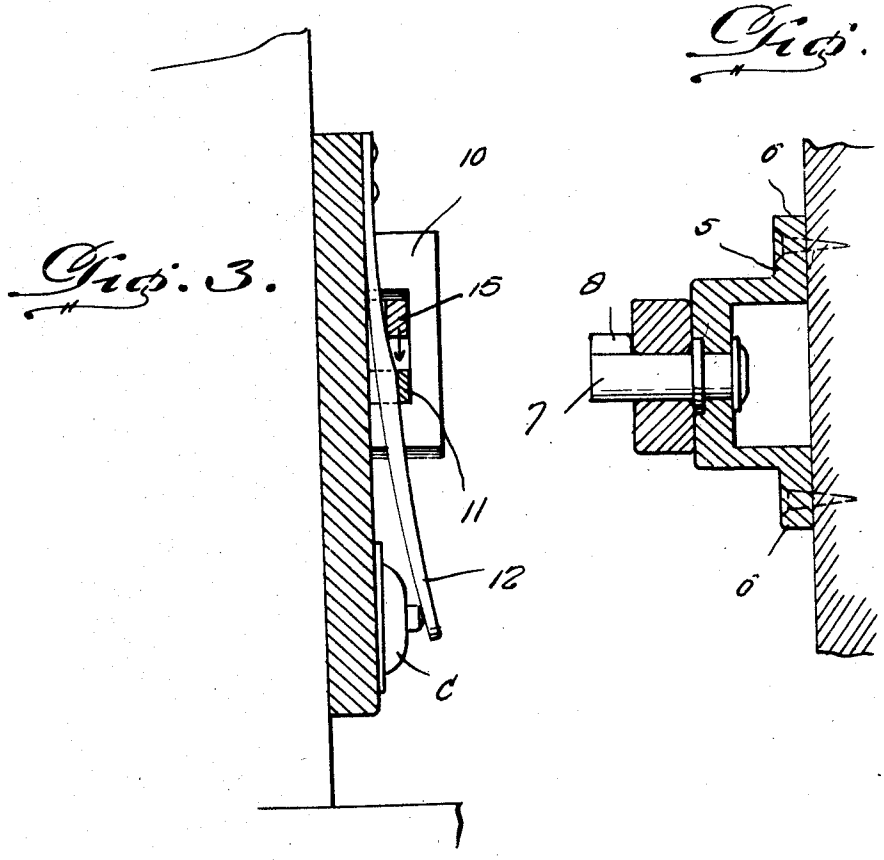



Fig. 3.

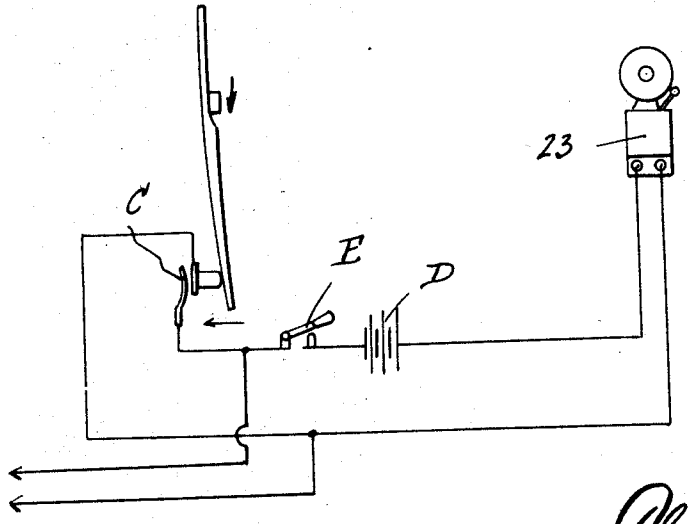



Fig. 5.

Inventors
T. Randon,
H. Phoenix,

By Clarence A. O'Brien
Attorney

Patented Oct. 2, 1928. 1,686,032

# UNITED STATES PATENT OFFICE.

THADEUS RANDON AND HAROLD PHOENIX, OF WILKES-BARRE, PENNSYLVANIA.

## COMBINED SASH LOCK AND SIGNAL-SWITCH ACTUATOR.

Application filed June 24, 1927. Serial No. 201,159.

This invention relates to new and useful improvements in sliding sash locks and alarm devices, and aims to provide a highly novel, simple and inexpensive device for use in facilitating the locking of sliding sashes and at the same time to provide a means for actuating an electric alarm switch in the event an attempt is made to raise the sash. However, the construction is such as to permit the sash to be readily raised or lowered by authorized parties within the building without the actuation of the alarm switch.

In the accompanying drawing wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a fragmentary inside elevation of the sliding sash and window frame equipped with our improved device.

Figure 2 is a horizontal section through the sash and window frame for disclosing the invention in upper edge view.

Figure 3 is a longitudinal section taken through the window frame attaching panel of the invention for more clearly disclosing the means for causing the operation of the signal switch in the event an attempt is made to raise the sash, and substantially upon the line 3—3 of Figure 1.

Figure 4 is a longitudinal detail section taken substantially upon the line 4—4 of Figure 1 for disclosing the means of connecting the operating member of the device to the sliding sash so as to cause the operation of the switch in the event the sash is raised, and to also prevent the raising of the sash beyond a predetermined degree, and

Figure 5 is a diagrammatic view of the alarm or signal circuit.

Now having particular reference to the drawings, A designates generally a window frame within which is slidable the usual sashes, the lower sash being disclosed and being designated by the reference character B. In carrying out our invention there is provided a bracket 5, preferably of metal and of U-shape in cross section being flanged at its upper and lower edges as at 6—6 to facilitate the attachment of the bracket to the frame of the sash B, preferably adjacent the lower edge thereof. Swivelly connected to the center of this bracket 5 is the inner end of a locking pin 7 that is formed adjacent its outer end and at its side with a key tongue 8.

The invention further consists of a base panel 9 constructed for rigid attachment to the window frame A directly adjacent the sash carrying bracket 5. This panel 9 is equipped at adjacent its lower edge with a conventional electrical push button switch C. Arranged upon the face of this panel 9 adjacent the outer vertical edge thereof is a diagonally extending guide member 10 arranged horizontally through the bottom of which is a stop bar 11. Secured to the face of this panel 9 inwardly of the guide 10 and at its upper end is a diagonally extending elongated tongue 12 of spring material, the lower end thereof being free from the panel as clearly indicated in Figures 1 and 3, said lower end of this spring tongue terminating directly in front of the button element of the push button switch C. This tongue 12 is so bent as to normally extend in an outward direction away from the panel 9 and in light engagement with the button of the switch C so that the normal position of the switch will be "off." However, when the lower end of this tongue is swung inwardly the switch will be closed for completing an electrical circuit to a suitable alarm, preferably of the character indicated in Figure 5 as hereinafter more fully described.

The panel 9 at the edge adjacent the sash B is equipped with an outwardly extending threaded pin 13 upon which is pivotally secured a block 14, the outer edge of this block being formed with a horizontal tongue 15 that projects beyond the spring tongue 12 and that is guided at its outer end within the guide pin above the stop bar 11. The surface of the tongue 12 above the stop bar 11 is beveled so that as the tongue 15 is moved downwardly it will still engage the tongue and cause the lower end thereof to spring inwardly for operating the push button switch C.

The inner edge of the pivot block 14 is also equipped with a tongue 17 which tongue is pivoted within the adjacent bifurcated end of a relatively H-shaped block 18 by reason of a vertical pivot 19. The opposite bifurcated end of this block 18 is adapted for engagement over the swivel pin 7 of the sash bracket 5. When the pin 7 of the bracket 5 is turned so that the key tongue 8 will overlie the edge of the bifurcation within the block, said block will be prevented from being swung upon the pivot 19. Moreover this will afford such a connection between the sash and said block 18 as to cause the pivoting of the block 14 upon the pivot 13 whenever the sash B is

raised, for as hereinbefore stated closing the push button switch C.

Furthermore as the sash B is raised the tongue 15 of the block 14 will engage the stop bar 11 for limiting the raising of the sash which will of course prevent any one from entering the window.

Arranged over the threaded pin 13 at the outer face of the block 14 is a collar 19 secured upon the pin 13 by a wing nut 20. The collar 19 is equipped with an upwardly extending pin 21 while the upper edge of the H-shaped block 18 is also equipped with a pin 22, said pins being interconnected by a retractile coil spring 23 for the purpose of automatically swinging the block 18 away from the bracket 5 when the same is released from the bracket 5 by turning the pin 7.

The character of signal preferably employed consists of a bell 24 located at a convenient point within the dwelling which bell is in circuit with the push button switch C and a suitable source of electric supply D. Also located within the circuit is a suitable control switch E in order that the circuit may be broken permanently to the bell even though the switch C is operated. If desired, the signal may be placed in circuit with switches located at other windows within the dwelling as generally suggested by the diagrammatic view, Figure 5.

It will thus be seen that we have provided a highly novel, simple, and efficiently operable sash lock and signal switch actuating device that is well adapted for all the purposes heretofore designated, even though we have herein shown and described the invention as consisting of certain detail structural elements it is nevertheless to be understood that some changes may be made therein without affecting the spirit and scope of the appended claims.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent is:—

1. In a device of the character described, a bracket constructed for attachment to a sash frame, a plate member constructed for attachment to the window frame adjacent said bracket, a push button switch associated with said plate, an elongated finger of spring material connected at one end to said plate and overlying the button of the push button switch at its lower end, said finger being normally swung outwardly at its lower end, a block pivotally secured to said plate, a tongue upon one end of the block for engagement over said spring finger whereupon when the block is swung downwardly said tongue will cause the inward movement of the finger to close the push button switch and a connection between the block and the sash attached bracket, to cause the swinging of the block when the sash is raised.

2. In a device of the character described, a bracket constructed for attachment to a sash frame, a plate member constructed for attachment to the window frame adjacent said bracket, a push button switch associated with said plate, an elongated finger of spring material connected at one end to said plate and overlying the button of the push button switch at its lower end, said finger being normally swung outwardly at its lower end, a block pivotally secured to said plate, a tongue upon one end of the block for engagement over said spring finger whereupon when the block is swung downwardly said tongue will cause the inward movement of the finger to close the push button switch and a connection between the block and the sash attached bracket to cause the swinging of the block when the sash is raised, and means associated with the window frame attached plate to limit the downward swinging movement of the block tongue to limit the upward movement of the sash.

3. In a device of the character described, a bracket constructed for attachment to a sash frame, a plate member constructed for attachment to the window frame adjacent said bracket, a push button switch associated with said plate, an elongated finger of spring material connected at one end to said plate and overlying the button of the push button switch at its lower end, said finger being normally swung outwardly at its lower end, a block pivotally secured to said plate, a tongue upon one end of the block for engagement over said spring finger whereupon when the block is swung downwardly said tongue will cause the inward movement of the finger to close the push button switch, a connection between the block and the sash attached bracket to cause the swinging of the block when the sash is raised, and quick detachable means between the block and said sash bracket so that the sash may be raised or lowered without causing a pivotal action of the block.

In testimony whereof we affix our signatures.

THADEUS RANDON.
HAROLD PHOENIX,