

S. J. NEWHART.

SASH LOCK.

APPLICATION FILED OCT. 6, 1908.

914,065.

Patented Mar. 2, 1909.

FIG. 1

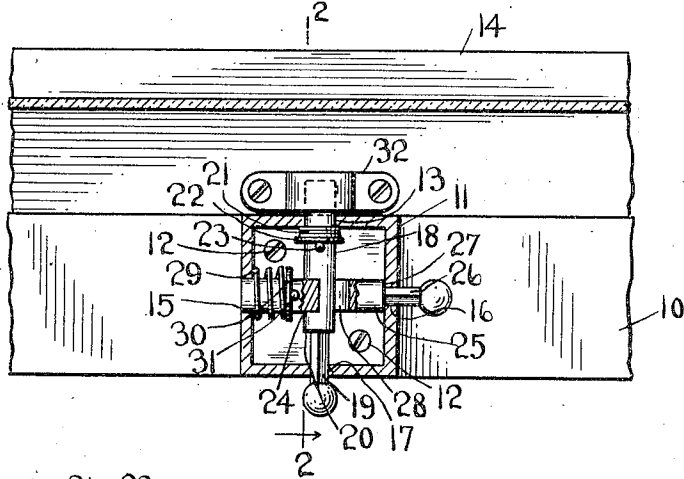


FIG. 3

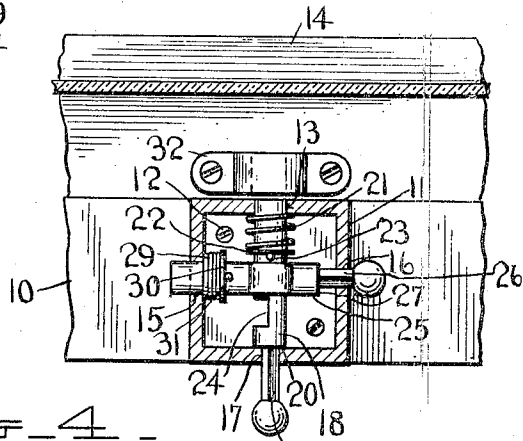


FIG. 2

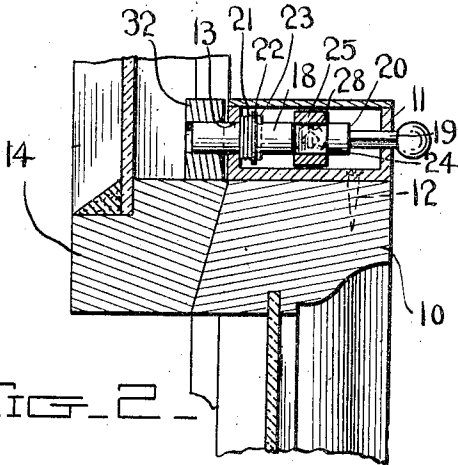
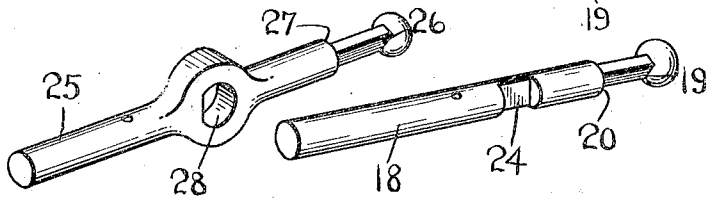


FIG. 4



Inventor

Witnesses

E. B. James

C. H. Woodward

Stewart J. Newhart

By

[Signature]

Attorney

UNITED STATES PATENT OFFICE.

STEWART J. NEWHART, OF STELLACOOM, WASHINGTON.

SASH-LOCK.

No. 914,065.

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To all whom it may concern:

Be it known that I, STEWART J. NEWHART, a citizen of the United States, residing at Stellacoom, in the county of Pierce, State of Washington, have invented certain new and useful Improvements in Sash-Locks; 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.

This invention relates to sash locks employed for the purpose of securing and locking the window sashes, and has for one of its objects to simplify and improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a simply constructed device applicable to one of the sashes and adapted to engage in a catch device in the other sash.

With these and other objects in view the invention consists in a casing applicable to one of the sash members and provided with two spring controlled bolts, one of which is adapted to engage in a catch device on the other sash and releasable by manipulating the other bolt.

The invention further consists in a casing adapted to be attached to one of the sashes and provided with a spring controlled bolt having a transverse notch and operative through an aperture in a spring controlled releasing bolt, one wall of the aperture adapted to engage in the notch of the holding bolt when the latter is in one position.

The invention further consists in certain novel features of construction as hereinafter shown and described and specifically pointed out in the claims; and in the drawings illustrative of the preferred embodiment of the invention.

Figure 1 is a sectional view of portions of the meeting rails of two sashes with the improved device applied and partly in section showing the holding bolt in locked position. Fig. 2 is a section on the line 2--2 of Fig. 1. Fig. 3 is a view similar to Fig. 1 showing the holding bolt in open or unlocked position. Fig. 4 represents the two holding bolts detached and in perspective.

The improved device is applicable to the upper or meeting rail 10 of the lower sash and consists in a casing 11 secured in position by screws or other fastening devices 12, and is formed with a guide aperture 13 in the

wall which is located next to the meeting rail 14 of the upper sash and with a similar guide aperture 15 in one of the side walls, the guide apertures 13--15 being preferably circular. The opposite side wall of the casing is provided with a transverse aperture 16 while the outer wall of the casing is provided with an aperture 17, the apertures 16--17 being other than round, and preferably square.

Slidably disposed through the apertures 13--17 is a holding bolt 18 the bolt having a reduced portion 19 fitting through the aperture 17 and conforming in outline thereto, the reducing of the bolt providing a shoulder 20, as shown. The bolt 18 is provided with an operating spring 21 bearing against a plate 22 which in turn is supported by a transverse pin 23. By this means the bolt 18 when released is supported yieldably with its shoulder 20 against the inner face of the casing adjacent to the aperture 17 and with the reduced portion 19 projecting beyond the casing. The bolt 18 is also provided with a transverse notch 24, as shown.

Slidably disposed through the apertures 15--16 is a releasing bolt 25 reduced at one end at 26 and fitting by the reduced end through the aperture 16, the reduced end producing a shoulder 27, as shown. The bolt 25 is provided with a transverse aperture 28, through which the bolt 18 operates, as shown, the bolt 25 having a spring 29 bearing against a plate 30, and the latter bearing in turn against a pin 31, by which means the bolt 25 is maintained yieldably in its withdrawn position when released. When the bolt 25 is in its withdrawn position, one wall of the aperture 28 enters the notch 24 of the bolt 18, and thus locks the bolt 18 in its projected position, as shown in Fig. 1, the object to be hereafter more fully explained.

Attached to the lower meeting rail 14 of the upper sash is a keeper 32 having an aperture or socket to receive the projected end of the bolt 18, when the latter is in projected position and when the sashes are closed. By this arrangement when the sashes are closed and the bolt 18 forced inwardly by pressure applied to the projecting end 19, the notch 24 will pass into the aperture 28, which will release the bolt 25 and permit the spring 29 to project the bolt into the notch, and thus lock the bolt 18 in its projected position against the action of the spring 21, and will

retain this position so long as the bolt 25 remains in closed position. By this means the two sashes are locked together, and can be opened only by releasing the bolts.

5 When the sashes are to be opened the projecting end 26 of the bolt 25 is forced inwardly which removes the retaining wall of the bolt 25 from the notch 24 of the bolt 18, and releases the latter which is at once withdrawn from the keeper 32 by the action of the spring 21. When the sashes are again to be locked in closed position the projecting end 19 of the bolt 18 is forced inwardly against the spring 21 which action moves the notch 15 24 into position to be engaged by the bolt 25, which thus locks the bolt 18 in its projected position and within the keeper 32.

The improved device is simple in construction, can be inexpensively manufactured, and applied to sashes of different sizes, and effectually locks the sashes in closed position.

The casing and other parts may be of any required size to adapt the device to sashes of different sizes, and may be manufactured 25 of any required material, or in any required ornamental shape.

Knobs are attached to the terminals 19—26 of the bolts 18—24 to improve the appearance.

30 What is claimed is:—

1. In a sash lock, a casing adapted to be attached to a window sash and having apertures arranged in opposite pairs, a lock bolt having a transverse notch and slidable 35 through one pair of said casing apertures, a trip bolt slidable through the other pair of said casing apertures and provided with a transverse aperture through which said lock bolt operates and with one end of which said 40 notch engages when the bolts are in one po-

sition and a keeper adapted to be connected to the other sash in position to receive said notched bolt when projected.

2. In a sash lock, a casing adapted to be attached to a window sash and having apertures arranged in opposite pairs, one aperture of each pair being square, a lock bolt having a transverse notch and slidable through one pair of said casing apertures, a trip bolt slidable through the other pair of 50 said casing apertures and provided with a transverse aperture through which said lock bolt operates and with one end of which said notch engages when the bolts are in one position, one end of each bolt reduced and 55 formed square to engage through the square apertures of the casing, and a keeper adapted to be connected to the other sash in position to receive said notched bolt when projected.

3. In a sash lock, a casing adapted to be attached to a window sash and having apertures arranged in opposite pairs, a lock bolt having a transverse notch and slidable through one pair of said casing apertures, a trip bolt slidable through the other pair of 65 said casing apertures and provided with a transverse aperture through which said lock bolt operates and with one end of which said notch engages when the bolts are in one position, a spring connected to each of said bolts, 70 and a keeper adapted to be connected to the other sash in position to receive said notched bolt when projected.

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

S. J. NEWHART.

Witnesses:

F. H. CHELINS,
R. H. CARR.