

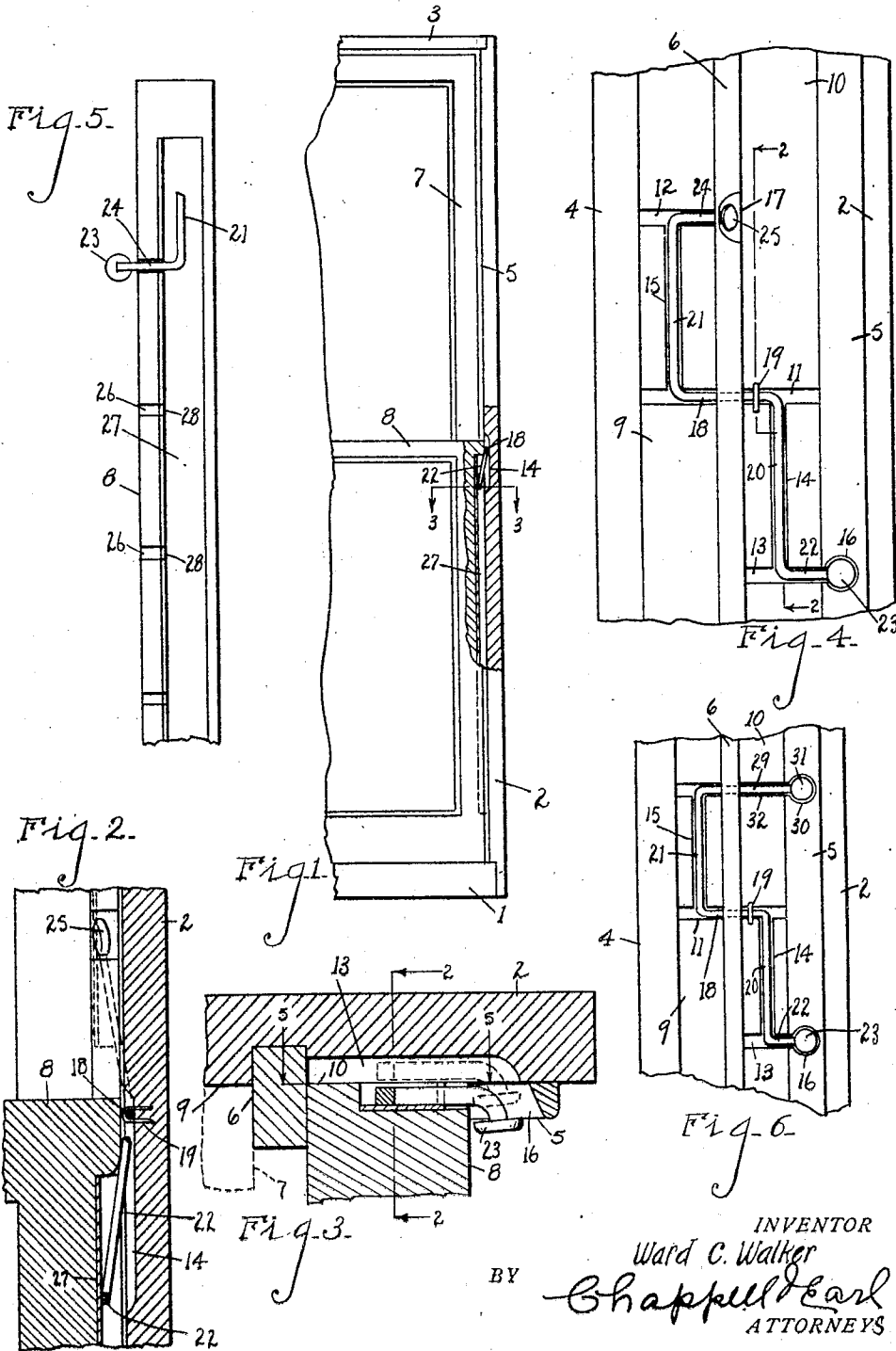
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SASH FASTENER

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SASH FASTENER.

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The main objects of this invention are:

First, to provide an improved sash fastener adapted to adjustably secure both the upper and the lower sash of a window.

Second, to provide an improved sash fastener having these advantages which may be very easily installed and is economical in structure.

Objects pertaining to details and economies of my invention will definitely appear from the description to follow. The invention is defined in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Fig. 1 is a fragmentary inside view of a window embodying the features of my invention, parts being broken away to show structural details.

Fig. 2 is a detail vertical section on a line corresponding to line 2-2 of Figs. 1 and 3.

Fig. 3 is a detail horizontal section on line 3-3 of Fig. 1.

Fig. 4 is an inside view of the casing with the window removed.

Fig. 5 is a detail edge view of one of the sashes.

Fig. 6 is a detail view corresponding to Fig. 4 of a slightly modified form or embodiment of my invention.

Referring to the drawing, 1 represents the sill of a window casing, 2 one of the risers or side members thereof and 3 the top. The casing is provided with the usual blind stop 4, inner removable stop 5 and parting strip 6. 7 represents the upper sash and 8 the lower sash traveling in the ways 9 and 10 respectively.

One of the side members 2 of the casing is provided with vertically spaced transverse grooves 11, 12 and 13, the intermediate transverse groove 11 extending across both of the sash ways. The groove 12 is in the upper sash way and the groove 13 in the lower sash way. The grooves 11 and 13 are connected by the longitudinal groove 14 while the grooves 11 and 12 are connected by the longitudinal groove 15.

The stop 5 is provided with a recess 16 communicating with the groove 13 while the parting strip is provided with a recess 17 communicating with the groove 12.

The fastener is formed of a single piece of metal preferably of rectangular cross sec-

tion bent to provide a body portion 18 disposed in the intermediate groove 11 and non-rotatably secured therein by means of the staple 19. At each end the body portion is provided with an arm, the arm 20 being disposed in the groove 14 while the oppositely disposed arm 21 is disposed in the groove 15. The arm 20 terminates in a detent 22 disposed in the groove 13 and having a finger piece 23 in the recess 16. The arm 21 has a forwardly projecting detent 24 disposed in the groove 12 and having a finger piece 25 in the recess 17.

The sashes are provided with transverse notches 26 adapted to receive the detents and are preferably reinforced by the angled bars 27 having notches 28 in one arm thereof registering with the notches 26, the bars in effect constituting keepers and taking the wear of the detent.

In the modification shown in Fig. 6 the detent 29 of the upper sash is extended, a recess 30 being provided in the stop 5 to receive the finger piece 31, a groove 32 corresponding to the groove 13 being extended across the way of the lower sash. This permits the manipulation of the upper sash without regard to the adjustment of the lower sash.

In the embodiment shown in Figs. 1 to 5, if the lower sash is opened above the finger piece 25 it is necessary to lower the same before the upper sash can be manipulated. The arms 20 and 21 are disposed at an angle to the plane of the body portion 18 so that when the body portion is non-rotatably secured, as by means of the staple, independent spring arms are provided. This results in a very economical construction and one which can be quickly and economically installed.

I have not attempted to illustrate or describe various adaptations or embodiments of my improvements as I believe the disclosure made will enable those skilled in the art to embody or adapt the same as may be desired.

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

1. The combination with a window casing provided with stops and a parting strip co-acting to provide upper and lower sash ways, the side members of the casing having vertically spaced transverse grooves therein, the intermediate groove extending into both

ways, the upper groove being in the upper sash way and the lower groove in the lower sash way, said ways having longitudinal grooves connecting the outer transverse grooves with the intermediate transverse grooves, the parting strip having a recess therein communicating with the lower transverse groove, a fastener formed of a single piece of metal and comprising a central horizontal body portion disposed and secured in said intermediate groove and having oppositely disposed spring arms at its ends disposed in said longitudinal grooves, said arms terminating in forwardly projecting detents disposed in said upper and lower transverse grooves and provided with finger pieces disposed in said recesses, and upper and lower sashes having notch-like keepers in their edges to receive said detents.

2. The combination with a window casing provided with stops and a parting strip coacting to provide upper and lower sash ways, the side members of the casing having vertically spaced transverse grooves therein, the intermediate groove extending into both ways, the upper groove being in the upper sash way and the lower groove in the lower sash way, said ways having longitudinal grooves connecting the outer transverse grooves with the intermediate transverse groove, a fastener formed of a single piece of metal and comprising a central horizontal body portion disposed and secured in said intermediate groove and having oppositely disposed spring arms at its ends disposed in said longitudinal grooves, said arms terminating in forwardly projecting detents disposed in said upper and lower transverse grooves and provided with finger pieces, and upper and lower sashes having keepers coacting with said detents.

3. The combination with a window casing provided with upper and lower sash ways, the side members of the casing having spaced transverse grooves therein, said ways

having longitudinal grooves connecting the outer transverse grooves with the intermediate transverse groove, the parting strip having a recess therein communicating with the upper transverse groove, the inner stop having a recess therein communicating with the lower transverse groove, a fastener comprising a central body portion disposed and secured in said intermediate groove and having oppositely disposed spring arms at its ends disposed in said longitudinal grooves, said arms terminating in forwardly projecting detents disposed in said upper and lower transverse grooves and provided with finger pieces disposed in said recesses, and upper and lower sashes having notch-like keepers in their edges to receive said detents.

4. The combination with a window casing provided with upper and lower sash ways, the side members of the casing having spaced transverse grooves therein, said ways having longitudinal grooves connecting the outer transverse grooves with the intermediate transverse groove, a fastener comprising a central body portion disposed and secured in said intermediate groove and having oppositely disposed spring arms at its ends disposed in said longitudinal grooves, said arms terminating in forwardly projecting detents disposed in said upper and lower transverse grooves, and upper and lower sashes having keepers coacting with said detents.

5. A sash fastener formed of a single piece of metal comprising a central body portion having oppositely disposed arms at its ends, said arms terminating in forwardly projecting detents provided with finger pieces, the arms being disposed at an angle relative to the horizontal plane of the body member so that when said body member is non-rotatably secured to a window sash the arms constitute independent spring members.

In witness whereof I have hereunto set my hand.

WARD C. WALKER.