Feb. 1, 1966 H. L. FOSTER 3,232,655

LOCKING DEVICE FOR DOUBLE HUNG WINDOW

Filed Sept. 30, 1963

Fig. 1

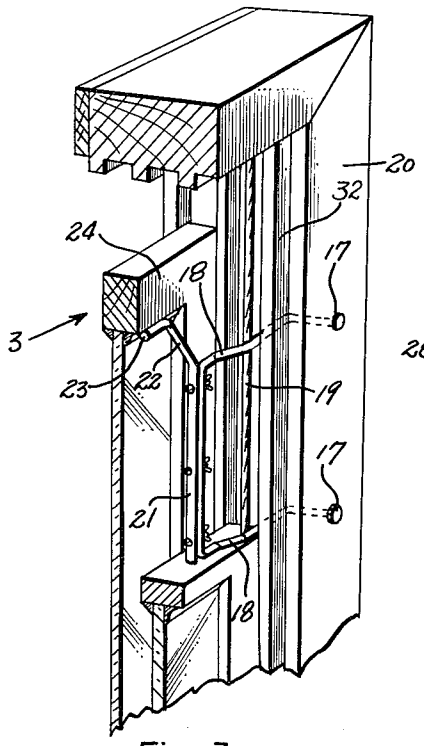


Fig. 2

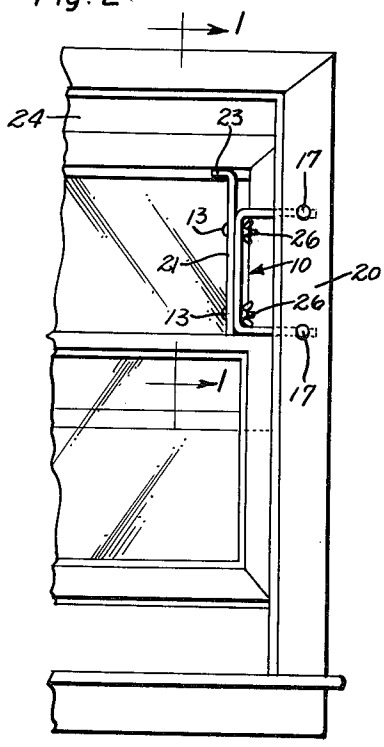


Fig. 6

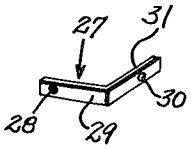


Fig. 7

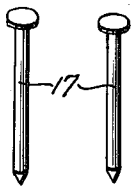
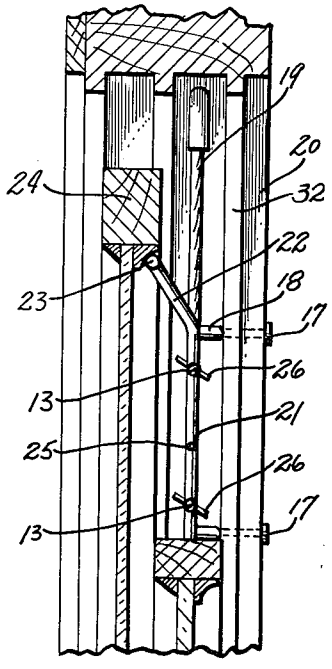


Fig. 3



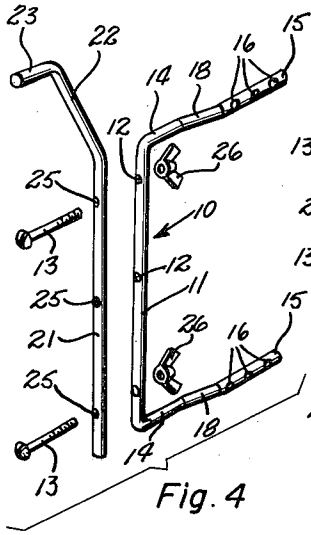


Fig. 4

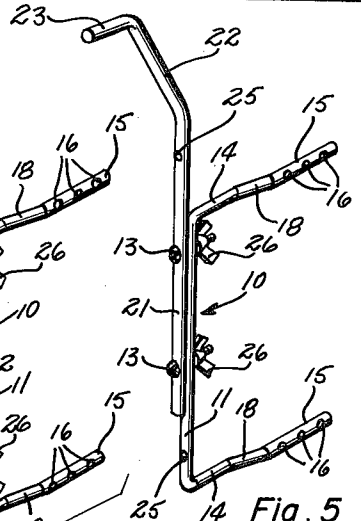


Fig. 5

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3,232,655

LOCKING DEVICE FOR DOUBLE HUNG WINDOW

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6 Claims. (Cl. 292—265)

This invention broadly relates to building construction and, more particularly, to buildings having windows of the double hung type though the invention can no doubt be modified for adaptation to other types of windows as will be hereinafter discussed.

While windows are one of the most necessary parts of any building, with the possible exception of warehouses and garages, too little attention has been paid to devices for locking them at a predetermined opening. It is undoubtedly due to this that there has been an untold number of burglaries, particularly in private homes.

It is therefore the principal object of this invention to provide a locking device for double hung windows, one of the most common type of windows used in home construction, a locking device that is simplicity itself by reason of its lack of complicated mechanism.

Another equally important object of this invention is to provide for double hung windows a locking device that can be installed by anyone having ordinary household tools.

Another object of this invention is to provide a locking device for double hung windows that can readily be mounted on either a wood or metal side jamb of a window.

Another object of this invention is to provide a locking device for double hung windows that has only eight parts, including all mounting hardware.

Another object of this invention is to provide a locking device that can be adapted to any size of double hung windows.

Still another object of this invention is to provide a locking device for double hung windows that can be adjusted to permit their opening to one of a number of predetermined distances from the top of the window.

All of the above noted and other attendant objects and advantages of this invention will become more readily apparent from the detailed description thereof which follows, reference being had to the accompanying drawing in which

FIGURE 1 is a perspective sectional view of this invention mounted on the side jamb of a window and taken along line 1—1 of FIGURE 2 as viewed in the direction indicated by the arrows.

FIGURE 2 is a front view of a portion of a typical window as viewed from the inside of the building with this invention mounted on one of the side jambs.

FIGURE 3 is an end view of FIGURE 1 as viewed in the direction indicated by the arrowed line and numeral 3 on FIGURE 1.

FIGURE 4 is an exploded perspective view of this invention ready for assembly on a side jamb of a window, with attachment nails not shown in this view.

FIGURE 5 is a prespective view of this invention completely assembled.

FIGURE 6 is a perspective view of locking pin hole locating template used to mount this invention on the side frame.

FIGURE 7 is a perspective view of the two locking pins used in locking this invention to side frame of a window.

In the several views of the drawing like reference numerals indicate like parts.

The invention consists of a track insert bar 10 that is formed from round bar metal stock into a U-shaped member when viewed from the front and which embodies a vertically disposed member 11 having a plurality of vertically

spaced openings 12, each one of which is horizontally disposed for the reception of the extension bar mounting screws 13. Each end 14 of the aforesaid vertically disposed member 11 is formed at right angle thereto into a horizontally disposed member 15 that has a plurality of parallel openings 16 in the end thereof for the reception of the locking pins 17.

It will be noted from examination of the drawing that each horizontally disposed member 15 is provided with a joggle 18 in order that the device will fit around but not touch the sash cord 19 of the side jamb 20 of a window.

A vertically disposed extension bar 21 of the same material and cross-sectional size as that of the already described track insert bar 10 has its upper end 22 formed at an angle and terminating in a right angle horizontal member 23 in order to rest against the underside of the top rail 24 of the upper sash when the window is lowered to a predetermined distance to which it is locked by this invention. The aforesaid extension bar 21 is provided with a plurality of horizontally disposed, vertically spaced openings 25 that are in alignment with the openings 12 in the aforesaid vertically disposed member 11 as the already mentioned mounting screws 13 must naturally go through this vertically disposed extension bar 21 as well as through the vertically disposed member 11 against which it rests when this invention is fully assembled as shown in FIGURE 5 of the drawing. A wing nut 26 is screwed onto the end of each one of the aforesaid mounting screws 13 when this invention is completely secured and assembled on a double hung window as shown in FIGURE 2 of the drawing.

The shape of the various parts that go to make up this invention has now been described and its method of assembly is relatively simple. After deciding exactly where this invention is to be mounted on the side jamb of a double hung window, the template 27 (FIGURE 6) which is an L-shaped member, is placed on the aforesaid side jamb 20 and checked by inserting the upper one of the horizontally disposed members 15 into the opening 28 in leg 29 while the point of a pencil is inserted into the opening 30 of leg 31 to mark exactly where the hole for locking pin 17 is to be drilled in order that it will pass through one of the openings 16 in the aforesaid horizontally disposed member 15 after a suitable recess has been made in the inside stop 32 of the side jamb 20. The necessary recess is now made in the inside stop 32 for the lower one of the aforesaid horizontally disposed members 15 in exactly the same way as has just been described for the opening for the upper horizontally disposed member 15.

It will be noted from examination of FIGURE 2 of the drawing, that this invention is so mounted on the side jamb 20 as to allow a reasonable amount of space between the inside of the aforesaid vertically disposed member 11 and the side jamb 20.

This invention of a locking device for double hung windows may, of course, be mounted anywhere on the side jamb 20 so as to permit the window to be lowered to any predetermined distance down from the top and prevent the lower sash from being raised more than a predetermined amount.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention, as defined in the appended claims.

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

1. A locking device for double hung windows comprising a pair of bars adjustably secured together and mounted on the side jamb of a double hung window, the upper

end of one of the said bars being adapted to rest against the underside of the top rail of the upper sash of said window when said sash is lowered to a predetermined distance, the lower ends of said bars adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is locked against opening more than its predetermined distance.

2. A locking device for double hung windows comprising a bar that is U-shaped when viewed from the side and an extension bar adjustably secured to the first mentioned bar which is mounted on the side jamb of a double hung window, the said extension bar having its upper end adapted to rest against the underside of the top rail of the upper sash of a window when said sash is lowered to a predetermined distance, the lower portion of said U-shaped bar adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is locked against opening more than its predetermined distance.

3. A locking device for double hung windows comprising a bar that is U-shaped when viewed from the side and the horizontally disposed members of the U-shaped bar having a joggle therein that permits the mounting of the said locking device to the side jamb of a double hung window without interfering with the sash cord and an extension bar adjustably secured to the first mentioned bar, the said extension bar having its upper end adapted to rest against the underside of the top rail of the upper sash of a window when said sash is lowered to a predetermined distance, the lower portion of said U-shaped bar adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is locked against opening more than its predetermined distance.

4. A locking device for double hung windows comprising a bar that is U-shaped when viewed from the side and the horizontally disposed members of the U-shaped bar having a joggle therein that permits the mounting of the said locking device to the side jamb of a double hung window without interfering with the sash cord, and an extension bar adjustably secured to the first mentioned bar, the said extension bar having its upper end formed at an angle and terminating in a right angle horizontal member adapted to rest against the underside of the top rail of the upper sash of a window when said sash is lowered to a predetermined distance, the lower portion of said U-shaped bar adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is

locked against opening more than its predetermined distance.

5. A locking device for double hung windows comprising a bar that is U-shaped when viewed from the side and the horizontally disposed members of the U-shaped bar having a joggle therein that permits the mounting of the said locking device to the side jamb of a double hung window without interfering with the sash cord and an extension bar adjustably secured to the first mentioned bar by means of a pair of extension bar mounting screws having a wing nut and the said extension bar having its upper end formed at an angle and terminating in a right angle horizontal member adapted to rest against the underside of the top rail of the upper sash of a window when said sash is lowered to a predetermined distance, the lower portion of said U-shaped bar adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is locked against opening more than its predetermined distance.

6. A locking device for double hung windows comprising a bar that is U-shaped when viewed from the side and the horizontally disposed members of the U-shaped bar having a joggle therein that permits the mounting of the said locking device to the side jamb of a double hung window by means of a pair of locking pins without interfering with the sash cord and an extension bar adjustably secured to the first mentioned bar by means of a pair of extension bar mounting screws having wing nuts and the said extension bar having its upper end formed at an angle and terminating in a right angle horizontal member adapted to rest against the underside of the top rail of the upper sash of a window when said sash is lowered to a predetermined distance, the lower portion of said U-shaped bar adapted to rest against the upper side of the upper rail of the lower sash when said lower sash is raised a predetermined distance, whereby each sash is locked against opening more than its predetermined distance.

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