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OPERATING MEANS FOR WINDOW SASHES

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Fig. 1.

Fig. 2.

Fig. 3.

William E. Rogge.
To all whom it may concern:

Be it known that I, William E. Rogge, a citizen of the United States, residing at Gulfport, in the county of Harrison and State of Mississippi, have invented certain new and useful improvements in Operating Means for Window Sashes, of which the following is a specification.

This invention relates to the operating means for window sashes and is especially adapted for use in connection with vertically movable glass sashes, mosquito excluding sashes, burglar excluding sashes and blinds.

An important object of this invention is to provide novel means whereby a sash may be operated at a point at one side of the window so that it will not be necessary to stand directly in front of the window when it is desired to raise or lower the sash.

A further object of the invention is to provide an operating means for sashes which is neat in appearance, of highly simplified construction and cheap to manufacture.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a perspective of the improved window frame and the sash, the view illustrating the means to raise and lower the several sashes.

Figure 2 is a detail horizontal sectional view illustrating the sash operating arms connected to the several sashes.

Figure 3 is a group perspective of one of the sash adjusting arms.

In the drawing wherein for the purpose of illustration is shown a preferred embodiment of the invention, the numeral 5 designates a window frame having the usual grooves 6 within which the sides of sashes 8, 9, 10 and 11 are slideable. It might be stated that the several sashes 8, 9, 10 and 11 each consist of upper and lower sections having connection with balancing weights 12 by means of the usual sash cords 14.

The invention forming the subject matter of this application aims to provide novel means whereby the several sashes may be raised and lowered at a point spaced to one side of the window so that in the event of a storm it will not be necessary to stand in front of the window and expose one's self to the rain or snow when it is desired to lower the window.

In carrying out the invention each of the several sashes are provided with operating arms 16 having enlarged sash attaching lugs 18 apertured as indicated at 19 for the reception of screws or other fastening devices 20. With reference to Figure 2, it will be observed that the attaching lugs 18 which are flat are received within the sockets in the sides of the several sashes and are securely held therein by means of the fastening devices 20. Each operating arm 16 is provided at the inner end of the flat attaching lug 18 with an enlarged shoulder 22 which contacts with one side of the casing at a point spaced from the adjacent edge of the sash to which the arm is connected.

Each arm 16 is extended angularly with relation to the sash to which it is connected and is passed out through one side of the casing. More particularly the outer end portion of each arm 16 is provided with a disk shaped head 26 and with a screw or threaded portion 28 slideable through a vertical slot 29 in the casing. A locking knob 30 is threaded on each threaded portion 28 and is adapted to securely engage the window casing whereby to hold the sash in a set position. It will be seen that when the knobs or nuts 30 are tightened on the threaded portions 28 the heads 26 as well as the nuts 30 will be drawn into locking engagement with the casement for firmly holding the sash in position.

As illustrated in Figure 2, the arms 16 increase in length toward the outermost arm so that the terminal portions of the same are extended through the front side of the casing.

As previously stated, the sash 8 may be provided with a pane of glass while the sash 9 may be provided with a wire mesh for the purpose of excluding mosquitoes, flies or other insects. The sash 10 is for the purpose of preventing intruders from gaining access to the house and is preferably provided with heat treated wire mesh capable of withstanding the efforts of intruders to enter the house through the window frame.

The outer sash 11 is provided with a plurality of shutters adjustable so as to regulate the flow of light through the sash. An adjustable cord 38 is connected to the several shutters of the sash 11 and is passed through the arm 16 and is provided with a loop 39.
by means of which the several shutters may be regulated.

In operation it is merely necessary to manually grasp the proper nut 30 when it is desired to elevate or lower one of the sash sections. When the sash section has been properly adjusted the same may be held in position by tightening the nut 30. Of course, one arm is provided for each section and as each sash is provided with two sections a total of eight arms will be provided.

I claim:

1. The combination with a window frame, of a plurality of sashes arranged therein, operating arms connected to the edges of said sashes and passing through said window frame at a point spaced laterally from said sashes, and adjusting nuts threaded on said arms and adapted to engage said window frame whereby to hold the sashes in an adjusted position.

2. In a window, the combination of a casing having a plurality of vertical slots, of sashes slideable within said casing and having their edges provided with sockets, arms having flat attaching lugs secured within said sockets, said arms being extended angularly from said sashes and having reduced portions passing through said slots, said reduced portions defining heads engaged with said casing, and adjusting nuts threaded on said reduced portions and adapted to engage said casing whereby to hold the sashes in an adjusted position, said adjusting nuts forming a means whereby the sashes may be raised and lowered by a person standing at one side of the window.

In testimony whereof, I have affixed my signature in the presence of two witnesses.

WILLIAM E. ROGGE.

Witnesses:

J. C. CORBETT,

W. W. SEYMOUR.