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WINDOW CONSTRUCTION
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Fig. 1.

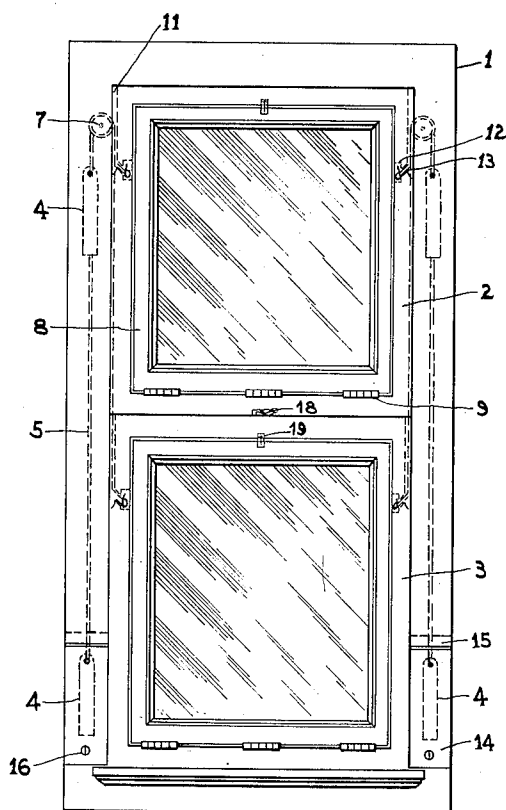
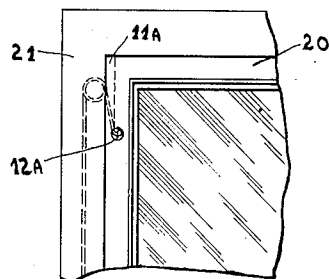


Fig. 2.



Fig. 3.



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WINDOW CONSTRUCTION

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2 Claims. (Cl. 20—48)

This invention relates to a novel and improved window construction, and particularly pertains to mounting a pivoted sash within each of two conventional vertically movable sashes, whereby the window panes within the pivoted sashes are readily accessible for being cleaned on both sides from the inside of the building. The invention also pertains to the novel construction of the window frame whereby ready access is had to the weight and to both ends of the weight cord to permit replacement of the cord without taking the frame apart.

One of the main objections to conventional window sashes is the inaccessibility to the outside of the window panes for washing and cleaning them, and also the inaccessibility to the weight cords. This difficulty in cleaning the outside of windows of the conventional type is well recognized as compared with the French type which is hinged to open inside and give ready access to the outside as well as the inside of the panes. Then, too, the ends of the weight cords are inclosed within the frame. Therefore, when the weight cords need replacement, the sides of the frames have to be taken apart and dismantled, thereby requiring the services of a carpenter or one who is more or less skilled in the trade.

The invention relates to a novel and improved device which is simple in construction and is adapted for use with window frames of conventional construction or those of different construction.

For a better understanding of the invention, reference may be made to the accompanying drawings in which:

Fig. 1 is an inside elevational view of a window sash and frame embodying the invention;

Fig. 2 is a cross sectional view of one of the window panes and sash; and

Fig. 3 is a modified form of the invention.

Referring specifically to the drawings in which like numerals are used to designate like parts, numeral 1 is a conventional frame made of any suitable material, such as wood, metal or the like. Mounted within the frame are an upper main sash 2 and a lower main sash 3 which are vertically raised and lowered within guideways in the frame in a conventional manner. The sashes may be of wood, metal or other suitable material.

Each main sash is provided with two weights 4, one on opposite sides, attached by a cord 5. One end of the cord is fastened to the weight, and the other end of the cord is attached to the main sash 2 or 3, with the intermediate portion of the cord

threaded over a pulley 7 which is mounted in, and preferably near, the top of the frame 1.

A sub-sash 8 is mounted in each of the main sashes and pivoted thereto by hinges 9, preferably at the bottom side, and the sub-sash is preferably in one unit. Weather stripping 10 is preferably provided around all four sides of the sub-sash between it and the main sash.

A groove 11, slightly wider than the diameter of the cord, is formed in the side edges of each of the main sashes, leading down from the top edge for a substantial distance and terminating in a recess or opening 12 in the inside face of the frame. The recess or opening is larger than the diameter of the cord to seat the end of the cord which is knotted at 13. The recess or opening will be large enough to seat the knot back from the inside face of the frame in order not to interfere with the vertical movement of the main sash within the frame. The recess is preferably of a size to snugly fit the knot so that the knot will substantially fill and close the recess or opening. However, if desired, the knot may be covered with putty or any suitable filling material that may be readily removed when desired for replacement of the cord.

In order to give access to the weight and the end of the cord which is attached thereto, the bottom of the frame is provided with a removable strip or panel 14, the top end 15 of which may be bias cut, or otherwise formed, to match with the bottom bias cut end or other form of the face panel of the frame.

A screw 16 or other fastening device is projected through the bottom end of the panel 14 to be secured to the frame for holding the panel in position.

A conventional catch 18 is provided on the abutting top and bottom ends of the sashes 3 for locking and unlocking them and permitting them to be raised and lowered. There may also be a fastener 19 at the top of each sub-sash for fastening to the main sash.

It will be understood that the upper sash will be provided with two weights and cords, one on each side, and that the lower sash will likewise be provided with a weight and cord on each side. Otherwise expressed, there are two weights for each of the vertically movable sashes.

In the modification in Fig. 3, window sash 20 of conventional form is mounted in frame 21. A groove 11a, similar to 11 in Fig. 1, is formed in the side edges of the sash terminating into a recess or opening 12a leading through to the front inside face of the sash. Inasmuch as the open-

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ing or recess is on the face side and exposed to view, it may be preferable to cover the knot and fill the recess with putty or wood filler or any desired material which will cover and conceal the knot but which may be removed to give access thereto when desired.

While I have illustrated preferred forms of the invention and described them in details of construction, it will be understood that there may be various changes without departing from the spirit of the invention.

I claim:

1. A window construction comprising a frame, a main sash mounted in the frame and vertically movable relatively thereto provided with an opening for a sash cord extending from its outside edge through to an inside face of said sash, and a sub-sash pivotally mounted on the main sash and fitting against the inside face of the main sash to cover the opening for the cord.

2. A window construction comprising a frame, a main sash mounted in the frame and vertically movable relatively thereto, a sub-sash pivoted on

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the main sash, a groove provided in the side edge of the main sash, and an opening leading from the groove through to the opposite side edge of the sash for securing the end of a weight cord to the sash, said sub-sash being adapted to cover the opening for the weight cord when closed and to uncover it when opened.

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