N. P. SJOBRING.

WINDOW BOX OR CASING.

APPLICATION FILED AUG. 21, 1908.

911,455.

Patented Feb. 2, 1909.

Fig. 1.

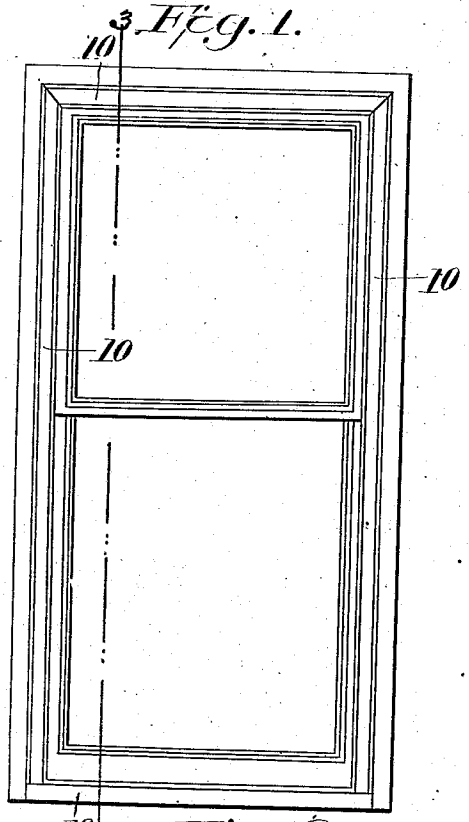
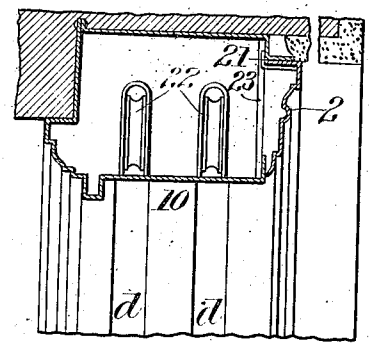


Fig. 3.



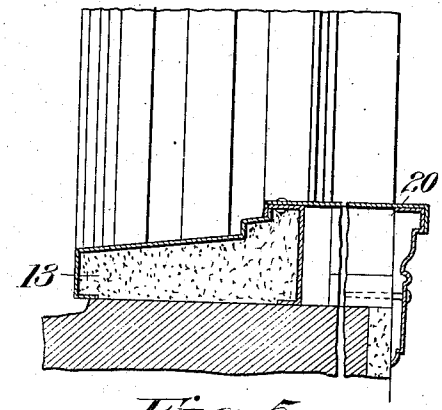


Fig. 5.

Fig. 2.

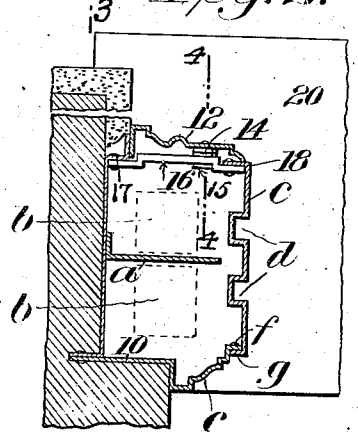
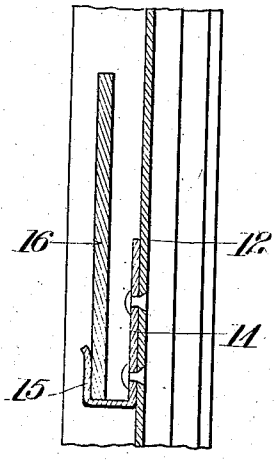
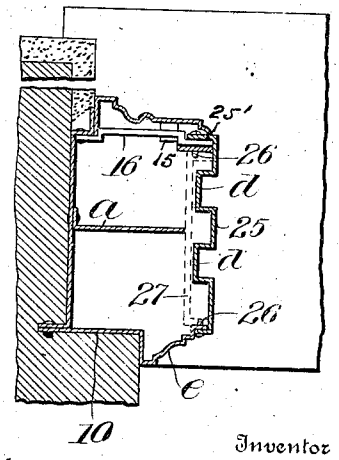


Fig. 4.





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UNITED STATES PATENT OFFICE.

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WINDOW BOX OR CASING.

No. 911,455. Specification of Letters Patent. Patented Feb. 2, 1909.

Application filed August 21, 1908. Serial No. 449,723.

To all whom it may concern:

Be it known that I, NILS P. SJOBRING, a citizen of the United States, residing at Jamestown, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Window Boxes or Casings, of which the following is a specification.

My invention relates to certain new and useful improvements in fire-proof metal windows, and particularly to the frames or casings thereof, in which the sashes are mounted, said sashes being either of the sliding or pivotally mounted type.

A primary object of my present invention is to provide the window box or frame with an ornamental side or casing rolled or otherwise fashioned in simulation of a molding and secured to the box or frame proper without visible screws and by means of hook-shaped members on the one part engaging clips or companion members on the other part.

Another object of the invention is to afford access to the interior of the box or frame so that the sill thereof may be filled with concrete, and the usual sash weights may be placed from the side of the box, without cutting holes in the jamb, therefore I construct the box with a normally open side which is subsequently closed by the aforesaid interior casing.

A further object of the invention is to provide a removable jamb for the box or frame, which jamb is designed to be fitted to the box when the building is about completed, to thereby prevent injury to the jamb during the erection of the building.

With the foregoing and other objects in view, my invention consists of the parts and the constructions, arrangements and combinations of parts which I will hereinafter describe and claim.

In the accompanying drawings forming part of this specification and in which similar reference characters indicate like parts in the several views:—Figure 1 is an exterior elevation of a window and frame embodying my invention. Fig. 2 is an enlarged horizontal section taken through one side of the window box or frame, showing the exterior casing in place. Fig. 3 is an enlarged vertical sectional view, on the line 3—3 of Fig. 1, but showing the sashes omitted. Fig. 4 is a sectional detail, on the line 4—4 of Fig. 2 showing a portion of the exterior casing and one of the clips engaged thereby. Fig. 5 is a cross-section taken through one side of a frame, with a separate removable jamb.

In the aforesaid drawings, except Fig. 1, I have omitted the sashes for the sake of clearness, but it will be understood that any of the well known types of sashes may be used in connection with my improved box or frame, without departing from the spirit of the invention.

In carrying out my invention, I prefer to construct the box or frame, 10, hollow and of sheet-metal, with a vertical partition, *a*, in each side forming separate chambers for the usual sash-weights, *b*, shown by dotted lines in Fig. 2, said box or frame being fashioned to fit and be secured in a suitable opening in the wall and having a jamb, *c*, with vertical parallel grooves or channels, *d*, in which the sashes of the window are designed to operate and which sashes may be constructed and arranged to operate in the manner fully disclosed in my former application Serial Number 430,806, filed May 4, 1908, and which jamb may be rigidly and permanently secured to the box or frame, as shown in Fig. 2, or it may be separate and of a removable type designed to be placed in position only after the building is about completed, as shown in Fig. 5. The exterior side of the box or frame may be fashioned with an ornamental or molding portion, *e*, which, in Fig. 2, has a flange, *f*, which is permanently riveted to a corresponding parallel flange, *g*, formed at the outer edge of the jamb; the interior side of the box or frame is normally left open but is to be subsequently closed by a separate and removable vertical casing, 12, which is suitably fashioned to give an ornamental or molding effect at the inside of the window.

While the foregoing description is of one side of the window box or frame only, it will be understood that the box or frame at both sides of the window will be constructed alike.

The opening normally left at the interior side of the box or frame is of advantage as it affords access to the chambers which are to contain the sash weights, which latter may be introduced through said open side and secured to the usual weight ropes or chains with but little trouble. The side opening also facilitates entrance to the hollow sill,

13, shown in Fig. 3, and permits the same to be filled with concrete at the building, in cases where such a sill is desired.

In order that the vertical finishing casing, 12, may be securely and yet detachably fitted to the box or frame, I rivet or otherwise fasten to the inner side of said casing a suitable number of plates, 14, one of which is shown in Fig. 4, and which plate projects inward from the casing 12, and has its free end bent into substantially hook-form as shown at 15. I also extend across the open side of the box or frame and at such distances apart as conditions require, suitable clips, 16, one of which is shown in Figs. 2 and 4. In practice these clips will be about two and one-half inches (2½″) wide and will be spaced about ten inches (10″) apart, their end portions being slightly offset and being riveted or otherwise permanently secured to the flanges, 17 and 18, on the box or frame and jamb thereof respectively. By placing the clips ten inches apart on the face of the box or frame, I am enabled to place the sash weights from the clip-side and thus avoid the necessity of cutting openings in the jamb; I am also enabled to fill the sill with concrete at the building, as before described.

The casing, 12, or finishing pieces have a length substantially equal to that of the box or frame and they are assembled to complete the window frame, and to form a trim therefor, by placing them in position and then shoving them upwards, or longitudinally, until the hook-portions of the plates, 14, securely interengage the respective clips, 16, when the casings are held from falling outward away from the box or frame; the casings, 12, are prevented from dropping vertically and disengaging their hooks from the clips, by inserting a window stool, 20, under their lower ends. In Fig. 3, the stool is shown as hollow and made of sheet-metal and rolled or otherwise given an ornamental appearance to enhance the appearance of the interior side of the window. The stool shown has a horizontal flange at its inner side which fits over and is secured to the top surface of the window sill.

The horizontal casing or finishing piece, 2, at the upper end or head of the box or frame conforms to the design of the vertical side pieces, and it has a hook-shaped piece, 21, riveted or otherwise secured to it and adapted to hook into engagement with an upper corner of the box or frame, it being understood that this horizontal casing may be and preferably is carried or supported by the upper ends of the vertical side casings, 12, the meeting ends of these pieces being mitered, if desired, as shown in Fig. 1.

The upper or head portion of the box or frame is hollow and is constructed in a manner well known in this art and it carries the pulleys, 22, over which the weight ropes pass. The front side of the head or upper end of the box is normally open and across this opening suitable vertical clips, 23, extend to brace the walls of the opening.

In Fig. 5, I show the box or frame as having a removable and separate jamb, 25, as distinguished from the permanent jamb of Fig. 2. When using this construction of Fig. 5, the jamb has end flanges, 25′, which fit into engagement with the side edges of the box or frame; the jamb may thus be made adjustable, the adjustment being accomplished by means of the screws, 26. Such a jamb is readily applied at the building by the employment of three or four temporary clips, 27, in the window box and which clips are removed when the jamb is applied. Such an arrangement of temporary clips braces or reinforces the edges of this open-side box or frame and permits the use of a separable jamb which is applied when the building is completed and which is not injured during the erection of the building, as a permanent jamb is likely to be.

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

1. The combination with a hollow window-box or frame having an open side, of a removable casing adapted to close said side, and to form an exterior finish therefor, and clips on one of the parts and hook-shaped members on the other part adapted to engage the clips when one part is moved relative to the other.

2. The combination with a hollow window-box or frame having an internal chamber for a sash-weight, and having a normally open side, of a detachable casing adapted to fit over said open side and form an exterior finish therefor, and means for detachably securing the casing to the box said means including a clip on one of the parts and extending across the open side thereof, and a plate fixed to the other part and having a hook-shaped portion to engage said clip when one part is moved relatively to the other.

3. A hollow window-box or frame having an opening in its side and having a member extending across said opening, in combination with a removable casing adapted to close the open side of the box or frame and form an exterior finish therefor, said casing having a member on its inner surface and adapted to engage and interlock with the first-named member, when the casing is moved relative to the box.

4. A sheet metal window-box or frame having a jamb and a normally open side, in combination with a separate casing adapted to close the open side of the box and form a finish therefor, and means detachably securing the casing to the box, said means including a clip secured to the box and extending

horizontally across said opening, and a plate secured to the casing and having a hook-shaped end adapted to engage the clip by a sliding movement.

5. A sheet metal window-box or frame having a jamb and a normally open side, in combination with a separate casing adapted to close the open side of the box and form a finish therefor, and means for detachably securing the casing to the box, said means including a clip secured to the box and extending horizontally across said opening, a plate secured to the casing and having a hook-shaped end adapted to engage the clip by a sliding movement, and a window-stool fitted under the lower end of the casing and forming a support therefor.

6. A sheet metal window-box or frame having a jamb and a normally open side, in combination with a separate casing adapted to close the open side of the box and form a finish therefor, and means for detachably securing the casing to the box, said means including a clip secured to the box and extending horizontally across said opening, a plate secured to the casing and having a hook-shaped end adapted to engage the clip by a slid ng movement, said box having a hollow sill adapted to receive a filling, and a window stool passing under the lower end of the casing and secured to said sill.

7. The combination with a window-box or frame having an open side, of a sheet-metal casing fitted over said side and forming an exterior finish therefor, the upper end of said casing having a hook-shaped member on its upper portion adapted to engage a part of the box to thereby secure the casing against outward movement, and a window-stool forming a support for the lower end of the casing.

8. A hollow window-box or frame having a normally open inner side, a temporary clip fixed across said open side, and a separate and removable jamb adapted to extend across and close said open side and having a guide for a window sash.

9. A hollow window-box or frame having a normally open inner side, a temporary clip fixed horizontally across said opening and adapted to be removed when the jamb is applied, and a separate and removable jamb adapted to extend across said opening to close the same and form a guide for a window-sash, said jamb having flanges along its side edges and fastenings by which said edges are secured to the box or frame.

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

NILS PEHR SJOBRING.

Witnesses:
HARRY R. LEWIS,
FRANCES L. AHLSTROM.