To all whom it may concern:

Be it known that I, Alphonso S. Campbell, a citizen of the United States, and resident of West Medford, county of Middlesex, State of Massachusetts, have invented an Improvement in Curtain-Window Frames, of which the following description, in connection with the accompanying drawings, is a specification, like characters on the drawings representing like parts.

This invention pertains to improvements in certain window installations and certain window frames. It is among the objects of the invention to provide for the simple, effective and inexpensive attachment of certain windows to curtains and the like. The present application includes modifications of the invention illustrated in my co-pending application Serial No. 405,088, filed August 21, 1920, and is intended to be subordinate thereto.

In the drawings, which show preferred embodiments of a few forms of my invention:

Fig. 1 is an elevation of a curtain window;
Fig. 2 is a section on the line 2—2 of Fig. 1;
Figs. 3 through 7 illustrate diagrammatically the formation and assembly of the curtain frame illustrated in Fig. 2;
Figs. 8 through 12 illustrate diagrammatically the formation and assembly of a modification of the curtain frame and associated parts shown in Fig. 2;
Fig. 13 is an elevation of the curtain window taken from the opposite side of the curtain from Fig. 1;
Figs. 14, 15, 16, 17, 18, 20, 21 and 22 are cross-sections through frames and associated parts, being modifications of my invention; and
Fig. 19 is an elevation of a rectangular frame viewed from the curtain side of the installation as distinguished from the frame side thereof.

Referring to the drawings, I have shown (see Fig. 2) a curtain window installation including a glass 22 secured in fabric 25 by a frame 24, the frame 24 being formed from a flat sheet of metal by various pressing or spinning operations diagrammatically shown in Figs. 3 through 7. The glass may be marginally overlain by the fabric on both faces. The setting or curling operation forming the change between Figs. 6 and 7 may be performed by spinning or pressing.

Figs. 8 through 12 illustrate subject matter similar to that shown in Figs. 3 through 7, except that the frame is modified for use with plain as distinguished from beveled glass.

While Fig. 1 illustrates the curtain window installation from the side thereof on which the frame is exposed, Fig. 13 illustrates the installation from the fabric or curtain side of the glass.

Fig. 14 illustrates a very simple construction, wherein the underlying portion of the frame is of a single thickness.

Fig. 15 illustrates a construction wherein the curtain fabric is clenched to the frame prior to the securing of the glass therein, the curtain fabric being pressed beneath an over-turned flange of the frame. Fig. 16 illustrates a modification of the construction shown in Fig. 15, the fabric being rolled up spirally within a portion of the flanged frame.

Fig. 17 illustrates a modification wherein the fabric is not pressed against the window 80 glass, but is held by a portion of the frame which is turned over in a direction away from the glass-receiving portion of the frame. This construction renders it unnecessary to slash and turn back the curtain fabric adjacent the aperture, but holds the frame in the fabric somewhat less securely than in the other constructions illustrated.

Fig. 18 is a modification, wherein the turned-over flange of the frame does not engage the glass directly, nor does it engage the fabric directly, but engages a supplemental frame ring 50 inserted to overlie the glass prior to spinning or crimping of the frame edge.

Fig. 19 illustrates a curtain window installation of rectangular form. Fig. 20 is a cross-section of a frame primarily adapted for use in curtain window installations of rectangular or polygonal form, wherein the sides of the frame are substantially straight.

Fig. 21 illustrates a modification wherein a covering frame 51 is pressed over the spun or crimped frame so that a superior finish may, if desired, appear on the exterior of the car. This covering frame may be held on by any suitable snap fastener means.
typified by the engaging bosses 52. Fig. 22 illustrates a modification well adapted for holding a beveled glass wherein the frame 24 is notched so as to form prongs at 53 to grip the fabric 28 between said prongs and the side of the frame 24.

While I have shown and described a preferred form of my invention and a preferred method of practicing the same, it will be understood that changes involving omission, substitution, alteration and reversal of parts, and even changes in the mode of operation, may be made without departing from the scope of my invention, which is best defined in the following claims.

Claims:

1. A curtain window installation including the glass, the curtain fabric and a one-piece frame overlying and exerting pressure on opposite faces of the glass, one side of said frame bent over the glass after assembly thereof with the frame and fabric, and a covering plate presenting snap fastener means resiliently engaging said one-piece frame and concealing said bent-over side of said frame.

2. A curtain window installation comprising, in combination, the glass, the fabric and the frame, said frame providing a single piece of metal exerting pressure on opposite sides of the glass, said fabric located between said frame and glass on both sides of the glass and having an edge concealed by said frame.

In testimony whereof, I have signed my name to this specification.

ALPHONSE S. CAMPBELL.