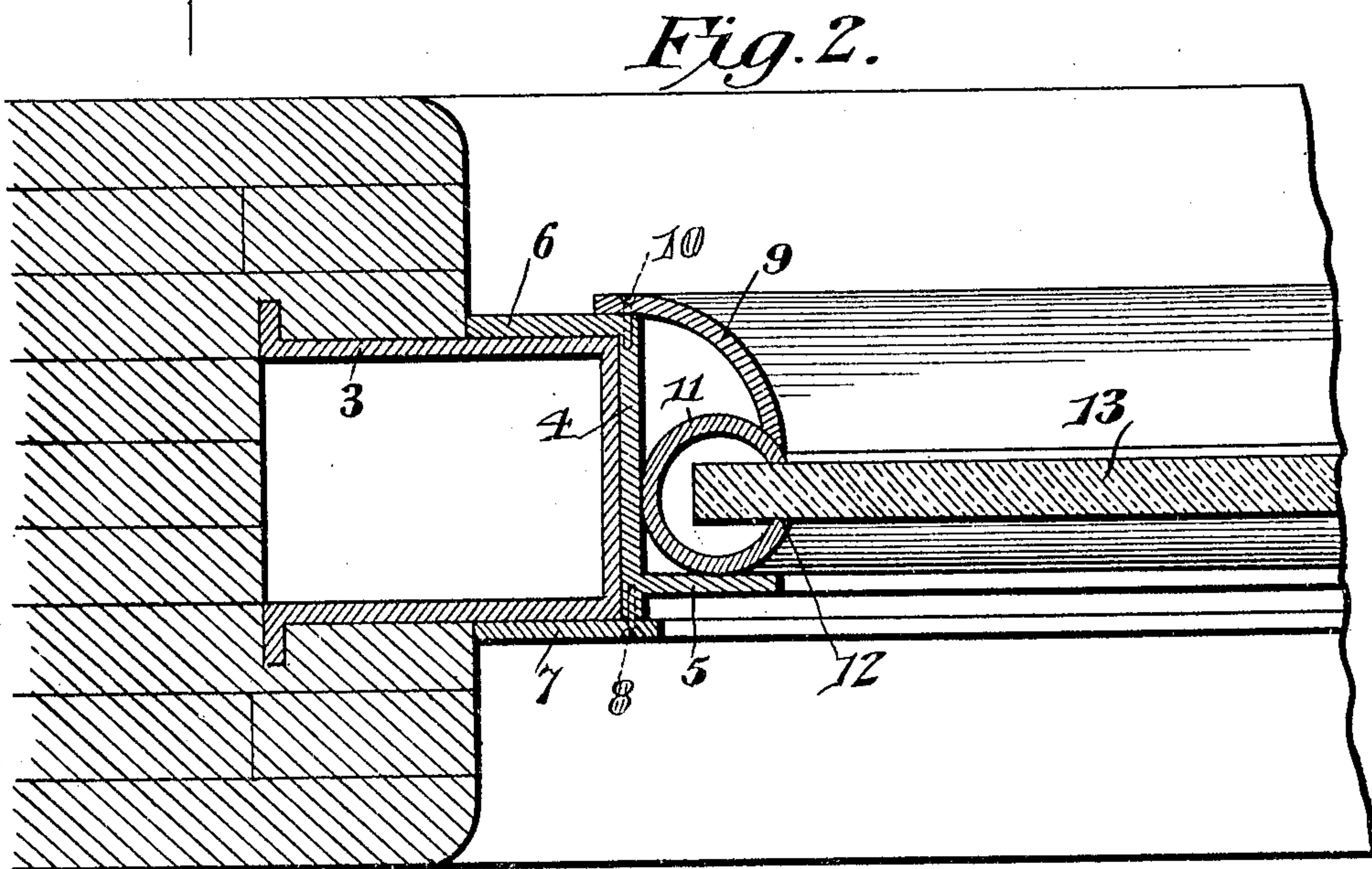
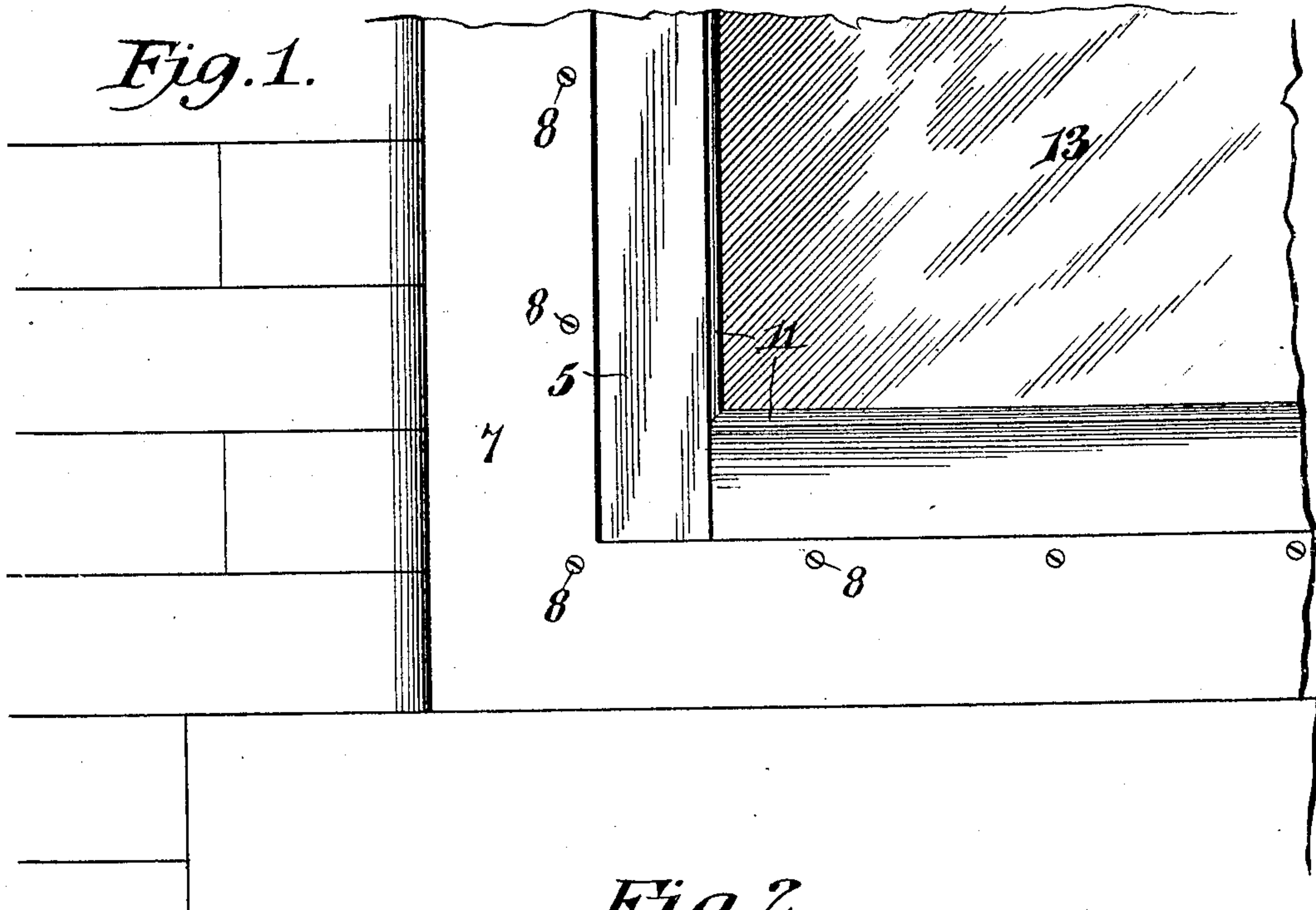


No. 876,113.

PATENTED JAN. 7, 1908.

G. M. VOLTZ.
FIREPROOF WINDOW SASH.
APPLICATION FILED JAN. 22, 1907.



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GEORGE M. VOLTZ, OF ST. JOSEPH, MISSOURI.

FIREPROOF WINDOW-SASH.

No. 876,113.

Specification of Letters Patent.

Patented Jan. 7, 1908.

Application filed January 22, 1907. Serial No. 353,539.

To all whom it may concern:

Be it known that I, GEORGE M. VOLTZ, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented a new and useful Fireproof Window-Sash, of which the following is a specification.

This invention relates more particularly to sliding window sashes, though there are features not necessarily limited to this particular type.

The object of the present invention is to provide a simple and effective sash that will securely hold a window-pane, can be readily detached from and replaced in a window-frame, and will permit the ready removal and replacement of the glass, should the same become necessary or desirable.

The preferred embodiment of the invention is disclosed in the accompanying drawings, wherein:—

Figure 1 is a side elevation of a portion of the sash, showing the glass in place therein and said sash in a window. Fig. 2 is a horizontal sectional view therethrough.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

In the embodiment set forth, the walls defining the sides of the window opening, are each provided with a guide member that is in the form of a channel iron 3, having one portion embedded in said wall, the other projecting into the window-opening, as disclosed in Fig. 2. The window-sash includes side bars associated with these guide members. As disclosed in the accompanying drawings, each of the side bars comprises a partition wall 4, from one side of which projects a longitudinally disposed retaining plate 5, said plate being located along one margin of the wall. From the opposite side of the partition wall projects an outstanding longitudinally disposed guide flange 6 that is located along the opposite margin of the wall 4 to the plate 5. The guide flange 6 is associated with one side of the guide member 3, and another flange 7 is associated with the opposite side of said member. The latter flange is detachably secured to the partition wall by screws 8 or other suitable fasteners. The spaced flanges 6 and 7 thus produce between them a guide-way that receives the guide member 3, as will be clear by reference to Fig. 2. Associated with the retaining plate 5, is a curved retaining plate 9, which is de-

tachably secured by screws 10 or other suitable fasteners to the edge of the wall 4 opposite that to which the flange 7 is secured. The plates 5 and 9 clamp between them, a pane-receiving carrier tube 11 having a longitudinal slot 12, which is exposed between the inner ends of the plates 5 and 9, and receives the marginal portion of the window-pane 13.

It will be evident that this structure is very simple, and yet is entirely effective for the purpose described. In case, a pane is broken, the same may be removed and a new one placed in position by removing the retaining plate 9, whereupon the tube 11 can be detached and the glass placed in position, as will be evident. The plate 9 moreover constitutes means for contracting the carrier tube 11 upon the glass, so as to avoid all looseness and rattle. Moreover if it is desired to detach the sash from the window, it is only necessary to remove the flange 7, whereupon said sash can be swung laterally, as will be evident.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion, and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In a window structure of the character described, the combination with a sliding sash comprising a holding frame including guiding means and spaced retaining plates, and a slotted pane-receiving carrier tube mounted in the holding frame between the plates and having a slotted portion exposed therein, of means coacting with the guiding means for guiding the sash in its sliding movement.

2. A window-sash including a side bar having pane-holding means, spaced side flanges projecting from its outer side, forming a guide-way between them, one of said flanges being detachable, and means for securing said detachable flange to the bar independently of the pane-holding means.

3. A window sash including a side bar having guiding means, spaced retaining plates, one of which is detachable from the

bar, means for securing the detachable plate to the bar, and a pane-receiving carrier located between the retaining plates and removable upon the detachment of said retaining plates, said carrier being held against displacement from the bar by the plates.

4. A window sash including a side bar comprising a partition wall having spaced guiding flanges projecting from one side, retaining plates projecting from the other side, and a slotted carrier tube located between and secured to the bar by the retaining plates.

5. A window-sash including a side bar having a partition wall, retaining plates projecting from one side of the wall, a pane-receiving carrier located between the retaining plates, spaced guide flanges projecting from the other side of the partition plate, certain of said flanges and plates being detachable,

and means for securing the detachable plate and detachable flange to the partition wall.

6. A window sash including a partition wall having an inset retaining plate along one margin, and an outstanding guide flange projecting from the opposite side of said plate and located at the other margin, a detachable retaining plate associated with the first mentioned plate, a slotted carrier tube clamped between the plates, and a detachable guide flange carried by the partition wall and associated with the first mentioned outstanding flange.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE M. VOLTZ.

Witnesses:

REUBEN L. VOLTZ,
LESLIE C. HOLM.