

No. 664,356.

Patented Dec. 18, 1900.

W. J. LARKIN.
FIREPROOF WINDOW.
(Application filed Mar. 23, 1900.)

(No Model.)

Fig. 1.

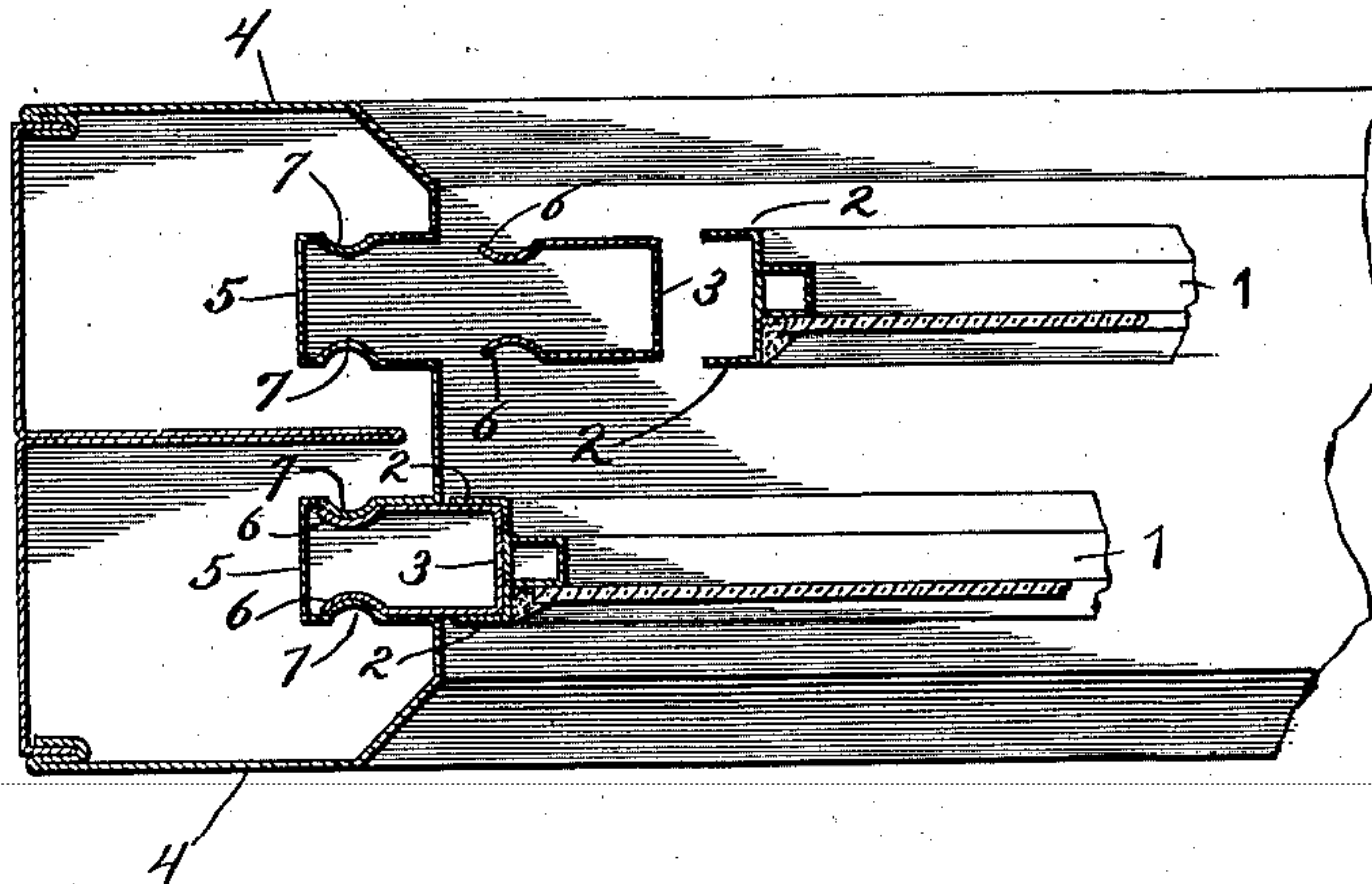
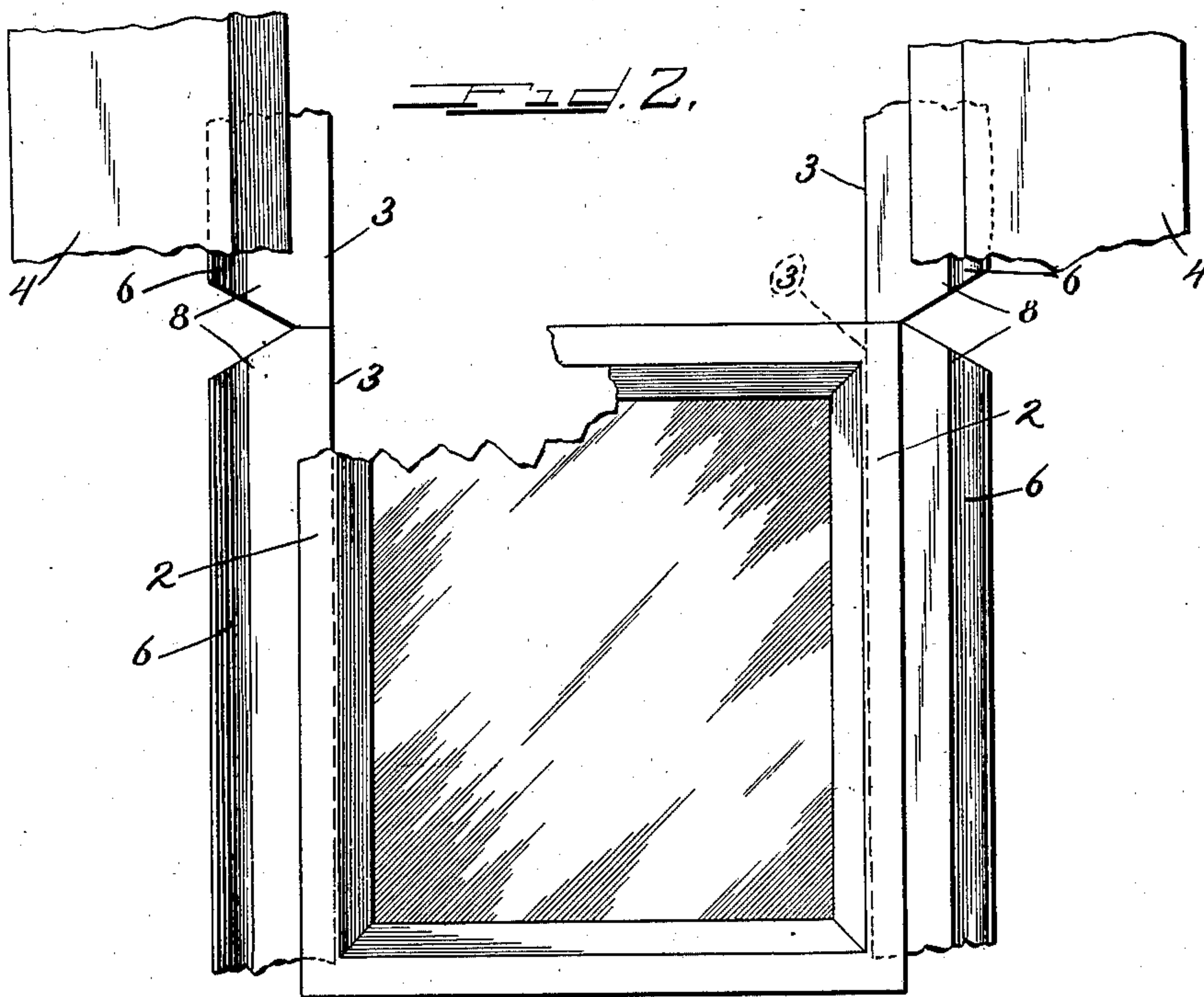


Fig. 2.



WITNESSES

Ira D. Perry
J. B. Keir

INVENTOR

Wm J. Larkin
By Elliott & H. P. Pm's Attys.

UNITED STATES PATENT OFFICE.

WILLIAM J. LARKIN, OF CHICAGO, ILLINOIS.

FIREPROOF WINDOW.

SPECIFICATION forming part of Letters Patent No. 664,356, dated December 18, 1900.

Application filed March 23, 1900. Serial No. 9,838. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. LARKIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Fireproof Windows, of which the following is a full, clear, and exact specification.

My invention relates to that class of fireproof windows which are usually constructed of sheet metal, and the improvements have more especial reference to the guide-strips or stops and the method of holding the same in place employed for guiding and holding the sash.

The primary object of my invention is to provide an improved removable sheet-metal guide-strip or stop which may be readily taken out for removing the sash.

With these ends in view my invention consists in certain features of novelty in the construction, combination, and arrangement of parts by which the said object and certain other objects hereinafter appearing are attained, all as fully described with reference to the accompanying drawings and more particularly pointed out in the claims.

In the said drawings, Figure 1 is an enlarged plan sectional view of one side of a window frame and sash provided with guide-strips or stops constructed according to my invention; and Fig. 2 is a front elevation thereof, partly broken away, on a small scale.

1 represents the sash, which may be constructed in any suitable way, but preferably of metal or fireproof material and preferably having its edges formed with flanges 2, which engage over or fit around the guide-strips or stops 3, and 4 represents the vertical member of the window-frame, also composed of sheet metal and bent or formed to the desired design. The inner side of each of the side members 4 of the window-frame is bent to form vertical channels 5, which are for the reception of the guide-strips or stops 3, each of which is composed, preferably, of a single strip of metal bent into the form of a channel-iron and having its free edges inserted into the channel 5. These free edges of the stop or strip 3 ordinarily possess sufficient elasticity to retain the stop in place in its channel; but if the uses to which the window is put require a more stable fastening the free edges of the stop in addition to being slightly flared outwardly may be turned abruptly to form en-

gaging hooks 6, and the opposite walls of the channel 5 may be bent inwardly here and there to form lugs 7 for the engagement of the hooks 6 when the stop is forced into place, the construction being such, however, that the stops may be withdrawn by compressing their sides together or exerting abnormal force in an outward direction. These stops, it will be seen, instead of fitting between the sashes fit into grooves or channels formed in the edges thereof by the flanges 2. It is quite evident, therefore, that in order to insert the sash after the window-frame has been constructed it is necessary to construct each of the stops of two pieces or, in other words, divide the stop at its mid length or height, so that the sash may be placed in at the top of the frame after the lower halves of the stops or guide-strips have been inserted in the lower part of the frame, the sash then pulled down over the lower halves of the stops or guide-strips, and the upper halves of the latter subsequently inserted above the sash. The abutting ends of the upper and lower halves of the stops or guide-strips are beveled off on opposite angles, as shown at 8 in Fig. 2, in order to facilitate the insertion and removal of such halves, as will be understood. It is not necessary for the purposes of my invention in its broadest sense, however, to let the stops or guide-strips into the edges of the sash; but with the construction described it will be seen that a tight joint is produced which will be effective in excluding dust and wind as well as fire.

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

1. The combination with a window-frame having a channel formed therein and a guide-strip or stop removably seated in said channel, said channel and guide-strip or stop being provided with an interlocking lug or hook, substantially as set forth.

2. The combination with a window-frame having a channel formed therein and a guide-strip or stop formed of a channel-iron having its free edges outwardly flared or expansible and fitted in said channel in the frame, substantially as set forth.

WM. J. LARKIN.

Witnesses:

EDNA B. JOHNSON,
F. A. HOPKINS.