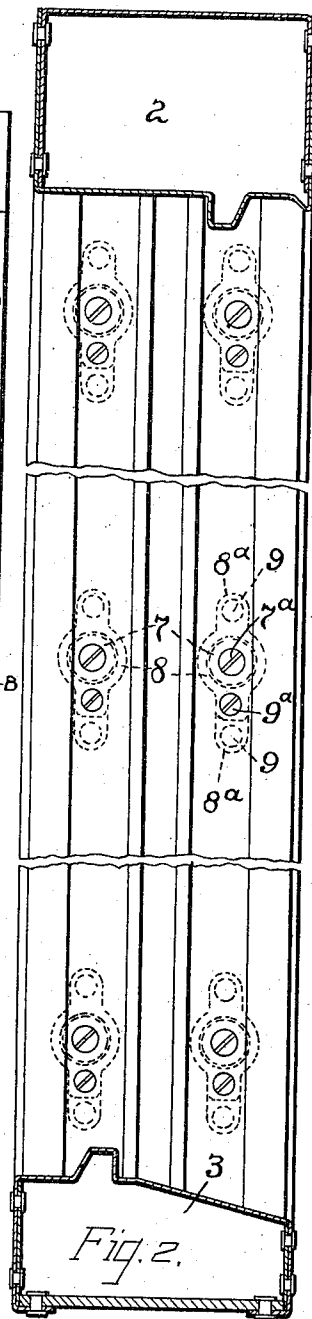
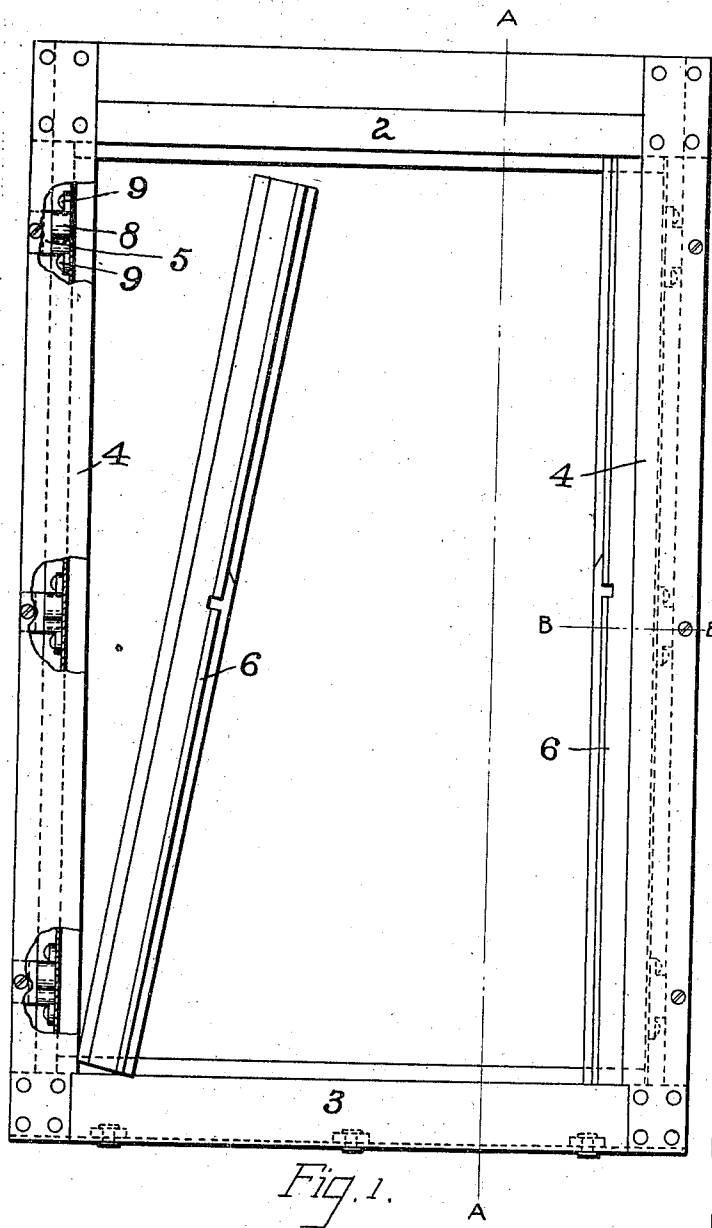


1,002,166.

2 SHEETS—SHEET 1.



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FIREPROOF WINDOW CONSTRUCTION.
APPLICATION FILED MAR. 18, 1911.

1,002,166.

Patented Aug. 29, 1911.

2 SHEETS—SHEET 2.

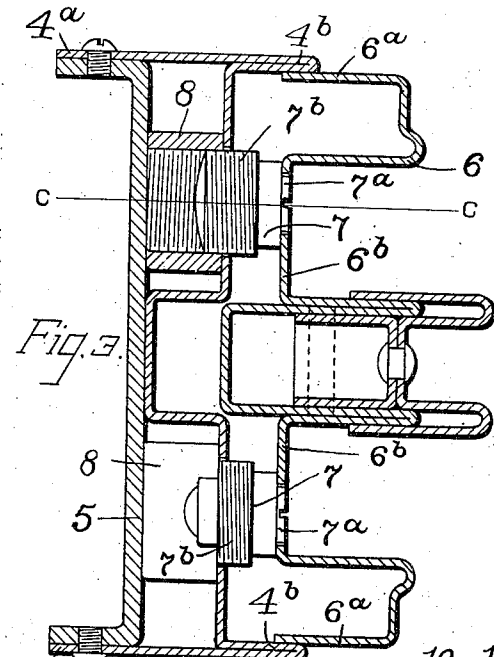


Fig. 3.

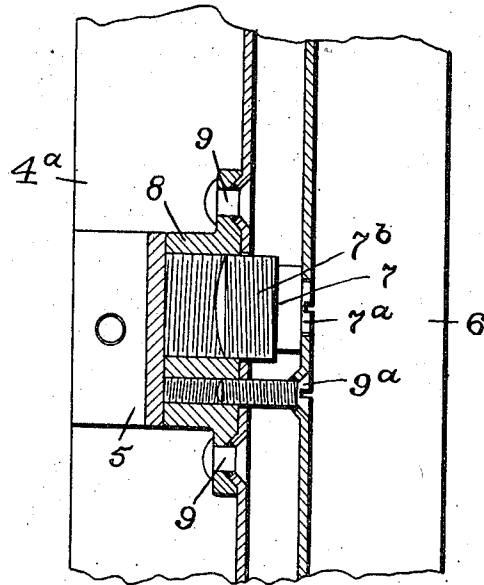


Fig. 4.

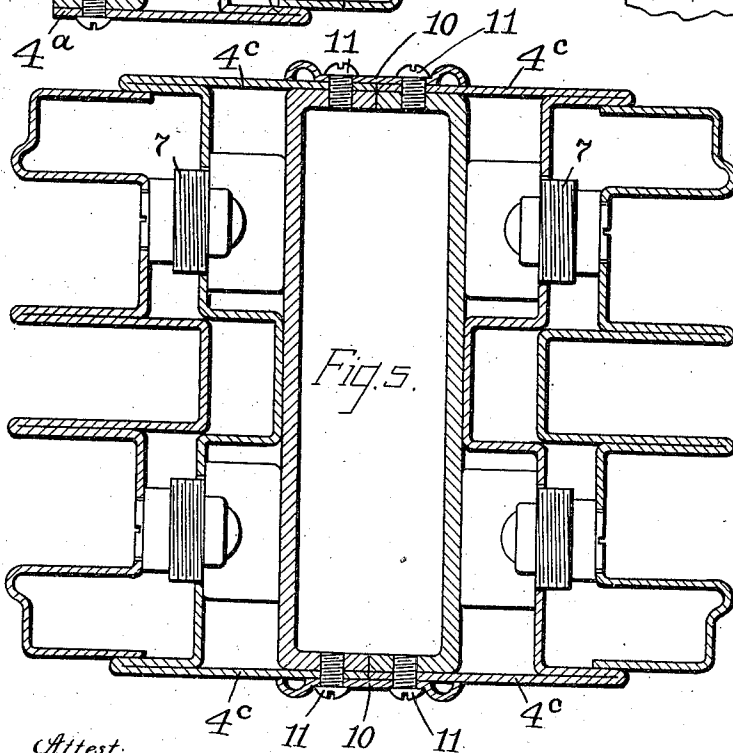


Fig. 5.

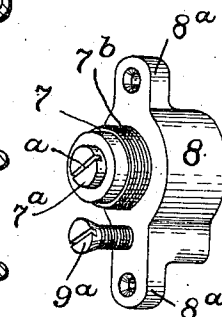


Fig. 6.

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UNITED STATES PATENT OFFICE.

EDMUND H. LUNKEN, OF CINCINNATI, OHIO, ASSIGNOR TO THE LUNKENHEIMER COMPANY, A CORPORATION OF OHIO.

FIREPROOF WINDOW CONSTRUCTION.

1,002,166.

Specification of Letters Patent. Patented Aug. 29, 1911.

Application filed March 18, 1911. Serial No. 615,319.

To all whom it may concern:

Be it known that I, EDMUND H. LUNKEN, citizen of the United States, residing at Cincinnati, Ohio, have invented certain new and useful Improvements in Fireproof Window Construction, of which the following is a specification.

My present invention relates to improvements in fire proof window construction of the type disclosed in an application for Letters Patent of the United States filed February 11, 1911 Serial No. 608,054, and has among others for its objects to provide a construction in which the cover plates may be readily initially adjusted and held in position to permit the sashes to slide freely, and by which subsequent adjustment may be readily effected without requiring removal of any parts.

The invention includes the novel features of construction and arrangement and combination of parts hereinafter described and particularly set forth in the appended claims.

In order to illustrate the invention reference is made to the accompanying drawings in which:—

Figure 1 is a front view of the frame minus the sash, showing the left hand cover plate slightly removed, and showing the position of the three adjusting screws; Fig. 2 is a section on line A A of Fig. 1; Fig. 3 is a section on line B B of Fig. 1; Fig. 4 is a section on line C C of Fig. 3; Fig. 5 is a horizontal section showing a mullion between the frames, this last view showing the construction when two or three windows are joined together; Fig. 6 is a detail view of the adjusting screw.

Referring by reference characters to these drawings, the main frame is shown as consisting of a top member or box 2, a bottom member or sill 3 and two side members 4, all of fire proof material and of channel form, these parts being suitably connected at the corners. The side members are provided with two forwardly projecting flanges 4^b, formed preferably by the doubling of the metal, which overlap or telescopically engage the flanges 6^a of the cover plates 6. The rear edges 4^a of the walls of the side members may be connected by the strengthening webs or bars 5. When the windows are shipped from the factory, the cover plates are not in place, as they are highly finished and are designed to be applied after

the frames are walled in, and the building construction advanced to such a stage as to preclude the liability of injury of the finished surfaces. When the cover plates are applied, their flanges 6^a fit within the flanges 4^b, and are guided or positioned by the bottoms of the channeled portions 6^b abut against the adjustable stops 7, of which preferably six are used on each side arranged as shown most clearly in Figs. 2 and 3. These stops are preferably made in the form of screws having reduced heads 7^a, which lie in openings in the bottom of the channels of the cover plates and which heads are slotted as indicated at *a* to enable them to be turned by a screw driver or like tool to secure proper adjustment. The threaded portion 7^b of the screws engage with the interior threads of the metallic socket pieces 8 which are preferably secured to the rear face of the frame members by rivets 9 passing through lugs or ears 8^a on the socket pieces. After the stops 7 have been adjusted to hold the cover plates in proper position to secure accurate fit and easy movement of the sash, the cover plates are held in proper position by the retaining screws 9^a, the heads of which are countersunk into the cover plates and the shanks of which are threaded into openings in the socket pieces alongside the adjustable stops. If, at any time after assembling, the settling of the building should cause binding of the sashes, proper adjustment may be made without removal of any parts by simply loosening the retaining screws 9^a and adjusting the stops 7 in or out to the proper amount, after which the retaining screws may be tightened up again.

The construction above described is applicable to double windows, as illustrated in Fig. 5, in which are shown two side frames 4^c placed back to back and secured together by the overlapping molding strips 10 secured in place by means such as screws 11.

It is obvious that the improvements above described are applicable to windows in which the sashes are of the weighted type, or to those in which the upper and lower sashes are arranged to balance each other.

Having thus described my invention what I claim is:

1. In metallic window construction, the combination with the side frame member and removable cover plate, of socket mem-

bers carried by said side frame member, stop screws carried by said socket members and against which the cover plate bears, and clamping screws passing through the cover plate and engaging the socket member in proximity to the stop screws.

2. In metallic window construction, a side member comprising a sheet metal body having forwardly and rearwardly extending flanges, a web connecting the rearwardly extending flanges and providing an intervening space, socket members located in said intervening space and bearing against the

front and rear walls thereof, stop screws adjustably held by said socket members, and a cover plate with means for clamping it against said stop screws, said cover plate having side flanges slidably engaging the forwardly projecting flanges of the side member.

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

EDMUND H. LUNKEN.

Witnesses:

H. W. STANNARD,

GEO. H. RIDDELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."