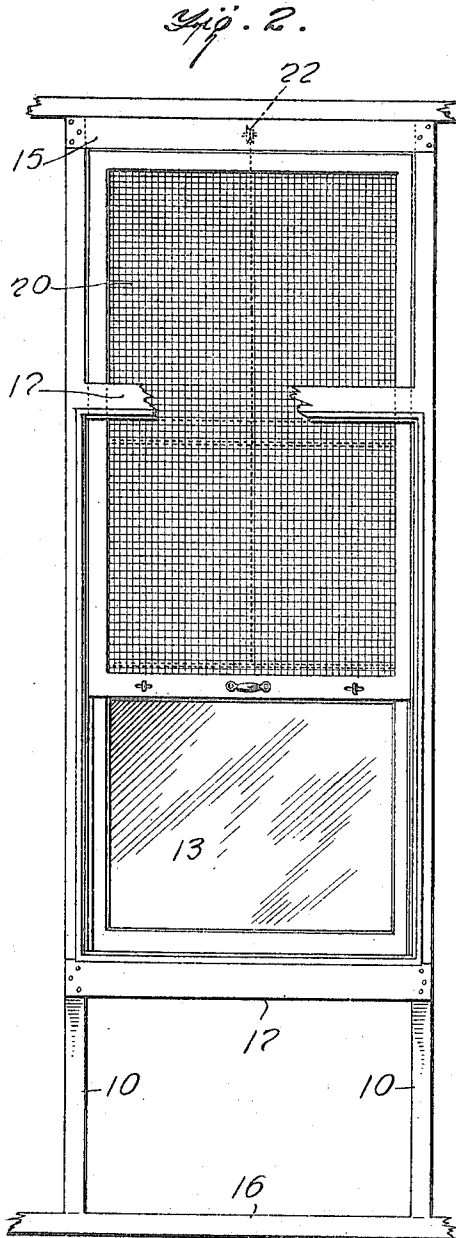
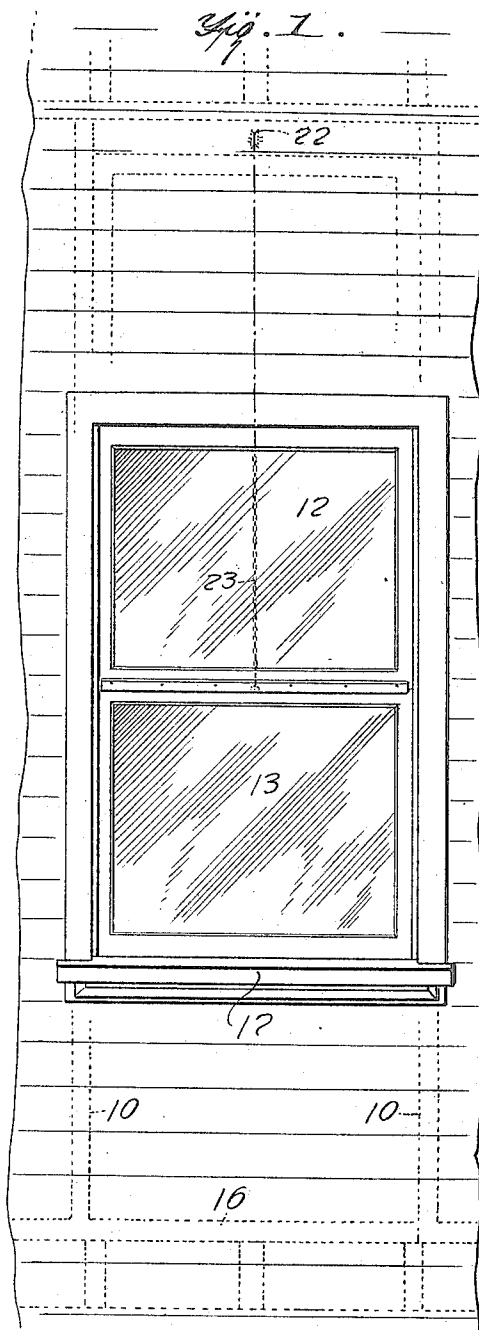


S. B. ZIMMER.
WINDOW CONSTRUCTION.
APPLICATION FILED JUNE 19, 1917.

1,270,915.

Patented July 2, 1918.
2 SHEETS—SHEET 1.



WITNESSES

L. H. Johnson
Myron R. Bear

INVENTOR

SAMUEL B. ZIMMER,

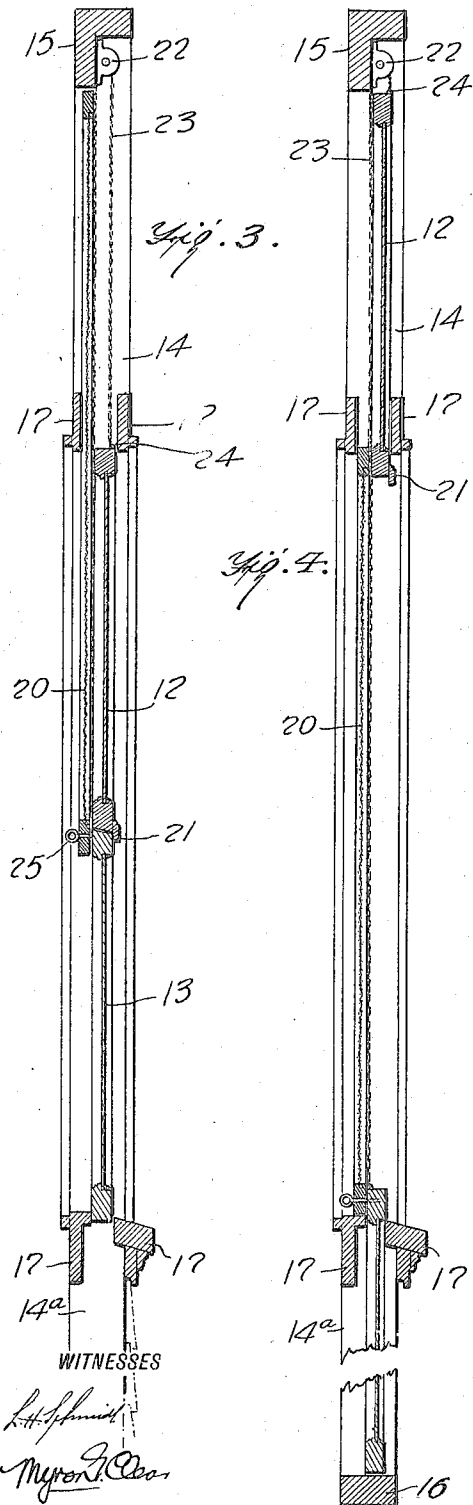
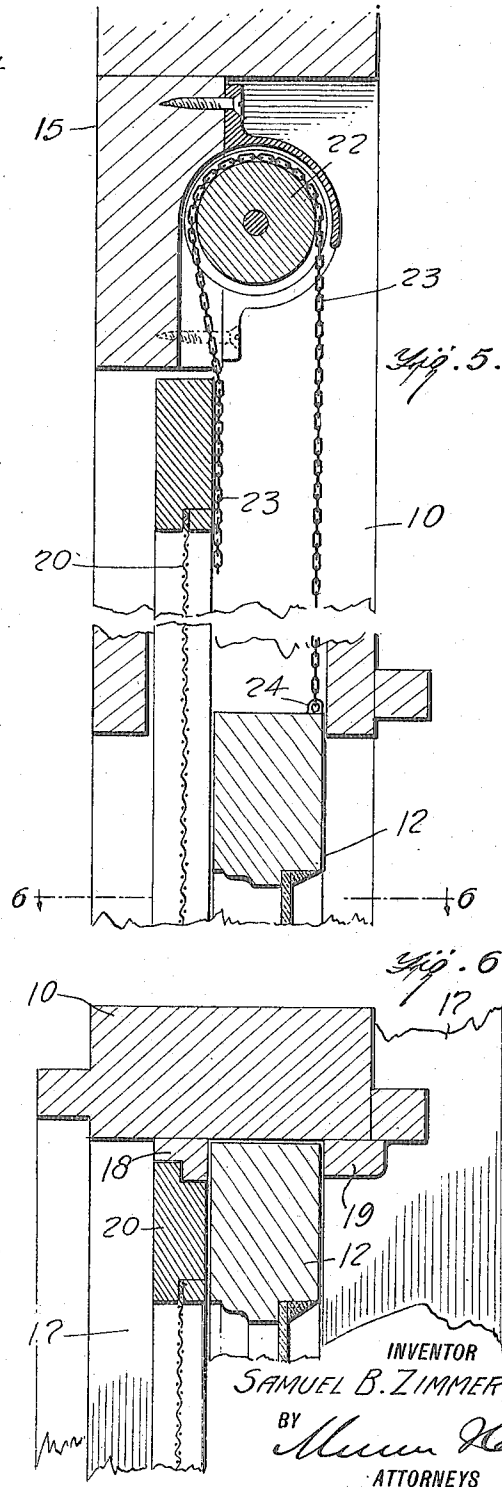
BY

Samuel B. Zimmer
ATTORNEYS

1,270,915.

Patented July 2, 1918.

2 SHEETS—SHEET 2.



WITNESSES
L. H. Schmidt
Myron G. Coe

INVENTOR
SAMUEL B. ZIMMER,
BY *Samuel H. Coe*
ATTORNEYS

UNITED STATES PATENT OFFICE.

SAMUEL B. ZIMMER, OF EL CENTRO, CALIFORNIA.

WINDOW CONSTRUCTION.

1,270,915.

Specification of Letters Patent.

Patented July 2, 1918.

Application filed June 19, 1917. Serial No. 175,614.

To all whom it may concern:

Be it known that I, SAMUEL B. ZIMMER, a citizen of the United States, and a resident of El Centro, in the county of Imperial and State of California, have made certain new and useful Improvements in Window Constructions, of which the following is a specification.

My present invention relates generally to window constructions, and particularly to a window construction which may be readily set in position at the time the building in connection with which it is to be utilized, is in course of construction, ready for the frames, and which has upper and lower sashes, respectively, movable into upper and lower frame pockets, so as to be capable of full concealment and protection in the open position, and which will provide for the use of a screen at the inner side of the sashes.

One of the objects of my invention is to provide a window construction in connection with which a screen may be utilized in such manner as to effect simultaneous movement of the two sashes and the screen, bringing the latter into operative position, as the sashes are opened, and in connection with which the screen is moved as the sashes are closed so as to leave an entirely free lower sash without obstruction of view.

These objects and the advantages resulting from my present construction will appear in the course of the following description in which reference is made to the accompanying drawing forming a part of this specification, and wherein:—

Figure 1 is an elevation illustrating the practical application of my invention and looking from the outside.

Fig. 2 is an elevation of the sash frame, sashes and screen.

Fig. 3 is a vertical longitudinal section with the sashes closed.

Fig. 4 is a similar view with the sashes open.

Fig. 5 is an enlarged vertical section through the upper portion of the sash frame, and,

Fig. 6 is a detail horizontal section taken substantially on line 6—6 of Fig. 5.

Referring now to these figures my invention provides a generally rectangular sash frame, the uprights 10 of which are extended vertically for material distances both above

and below the normal positions of the sashes 12 and 13 in closed position, to form upper and lower sash pockets 14 and 14^a, the uprights 10 of the frame being connected at their upper and lower ends by cross bars 15 and 16, and having spaced cross pieces 17 arranged in pairs above and below the window spaces and between the same and the pockets 14 and 14^a, the lower cross pieces 17 being the sills.

The uprights 10 have inner and outer stiles 18 and 19, which as best seen in Fig. 6, provide for the reception and guided sliding movement of the sashes 12 and 13, the sides of which extend into the guide spaces between said stiles. The inner stiles 18 are furthermore grooved to provide for the conformably grooved side edges of a screen frame 20, the latter of which extends vertically for the full length of the window space between the upper and lower boxes 14 and 14^a, as best seen in Fig. 4.

The two sash frames 12 and 13 slide in the same vertical plane, and respectively into and out of the pockets 14 and 14^a, in their movement to open and closed positions, in the latter of which their adjacent edges abut one another midway of the window space, the upper sash preferably having a cross strip 21 transversely across its lower edge and adapted to lap the upper transverse edge of the lower sash 13.

A pulley 22 is mounted in connection with the upper cross bar 16 on the sash frame, as best seen in Fig. 5, over which is extended a chain 23, one end of which is connected at 24 to the upper edge of the upper sash 12, the opposite end of the chain being connected to the upper edge of the lower sash 13. The lower edge of the screen frame 20 is furthermore connected at 25 to the upper end of the lower sash 13, so that by lowering the lower sash 13 into the lower pocket 14^a, on the sash frame, the upper sash will be simultaneously raised into the pocket 14 to the position shown in Fig. 4, and the screen frame 20 will be lowered at the same time to completely cover the window space. Similarly, when the lower sash is raised from the open position shown in Fig. 4 to the closed position in Fig. 3, the upper sash will lower and the screen frame will be raised with its upper end extending upwardly into the upper pocket 14. In this way several distinctly

advantageous results are brought about by my invention, among which is the total elimination of weights and other connections likely to get out of order, and to cause continual trouble in the use of the window.

A window as proposed by my invention may be placed completely in position at the time the window frame is set in the construction of a building, and the sashes themselves thereafter protected by simply opening the same, so that they extend within the upper and lower pockets and are fully protected. Furthermore, my invention provides for the simultaneous manipulation of the two sashes and the screen frame with the obviously improved result of elevating the screen frame when the sashes are closed so that free and unobstructed view may be had through the lower sash in the closed position.

I claim:

1. In a window construction, a frame having vertical sash and screen guides and provided with upper and lower pockets for the sashes, of which the upper pocket is also adapted to receive the upper portion of a screen frame, upper and lower sashes slidable in said guides in the same vertical plane and respectively movable into the upper and lower pockets of the window frame in open position, and a screen having its frame movable in connection with said guides at the inner side of the vertical plane of the sashes and connected at its lower end to the upper edge of the lower sash, and a connection between said sashes whereby to simultaneously

shift the same into open and closed positions.

2. In a window construction, a frame having vertical sash and screen guides and provided with upper and lower pockets, upper and lower sashes slidable in said guides in the same vertical plane and respectively movable into the upper and lower pockets of the frame, and a screen movable in connection with the said guides inwardly beyond the said sashes, the upper portion of which screen extends into the upper pocket of the frame, and the lower portion of which is connected to the upper portion of the lower sash.

3. In a window construction, a frame having vertical sash guides and upper and lower pockets, a pulley in the upper portion of the upper frame and pocket, upper and lower sashes slidable in said guides in the same vertical plane and respectively movable into and out of the upper and lower pockets, a flexible connection extending over the said pulley, one end of which is secured to the upper portion of the upper sash and the opposite end of which is secured to the upper portion of the lower sash and a screen movable in a plane parallel to the plane of movement of the sashes, and connected to the lower sash for the purpose described.

SAMUEL B. ZIMMER.

Witnesses:

J. L. TRAVERS,
J. P. NUFFER.

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