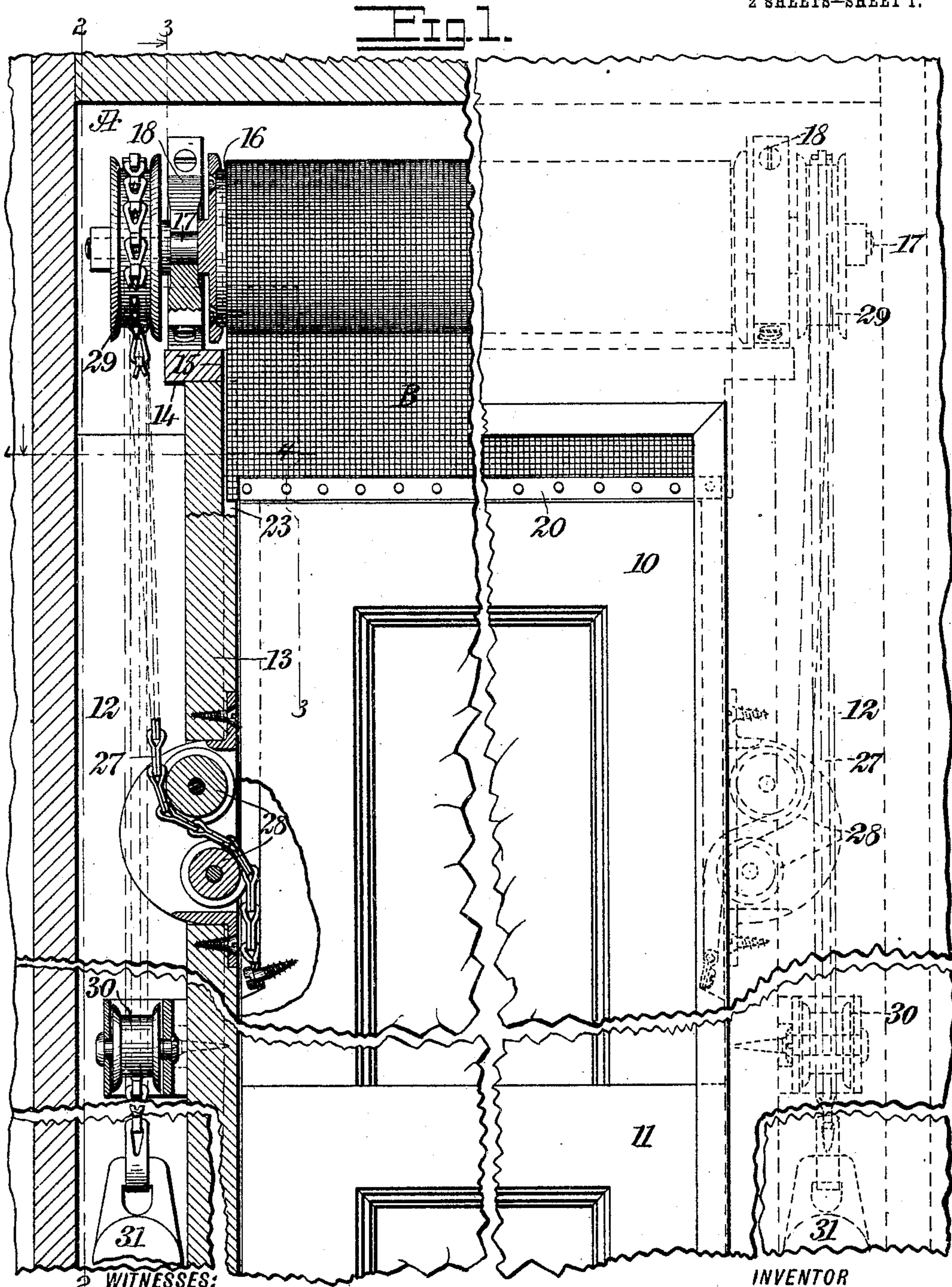


J. STORK.  
SCREEN.

APPLICATION FILED JAN. 6, 1905.

2 SHEETS—SHEET 1.



2 WITNESSES:

*L. Almquist.*  
*S. H. Cobb.*

INVENTOR  
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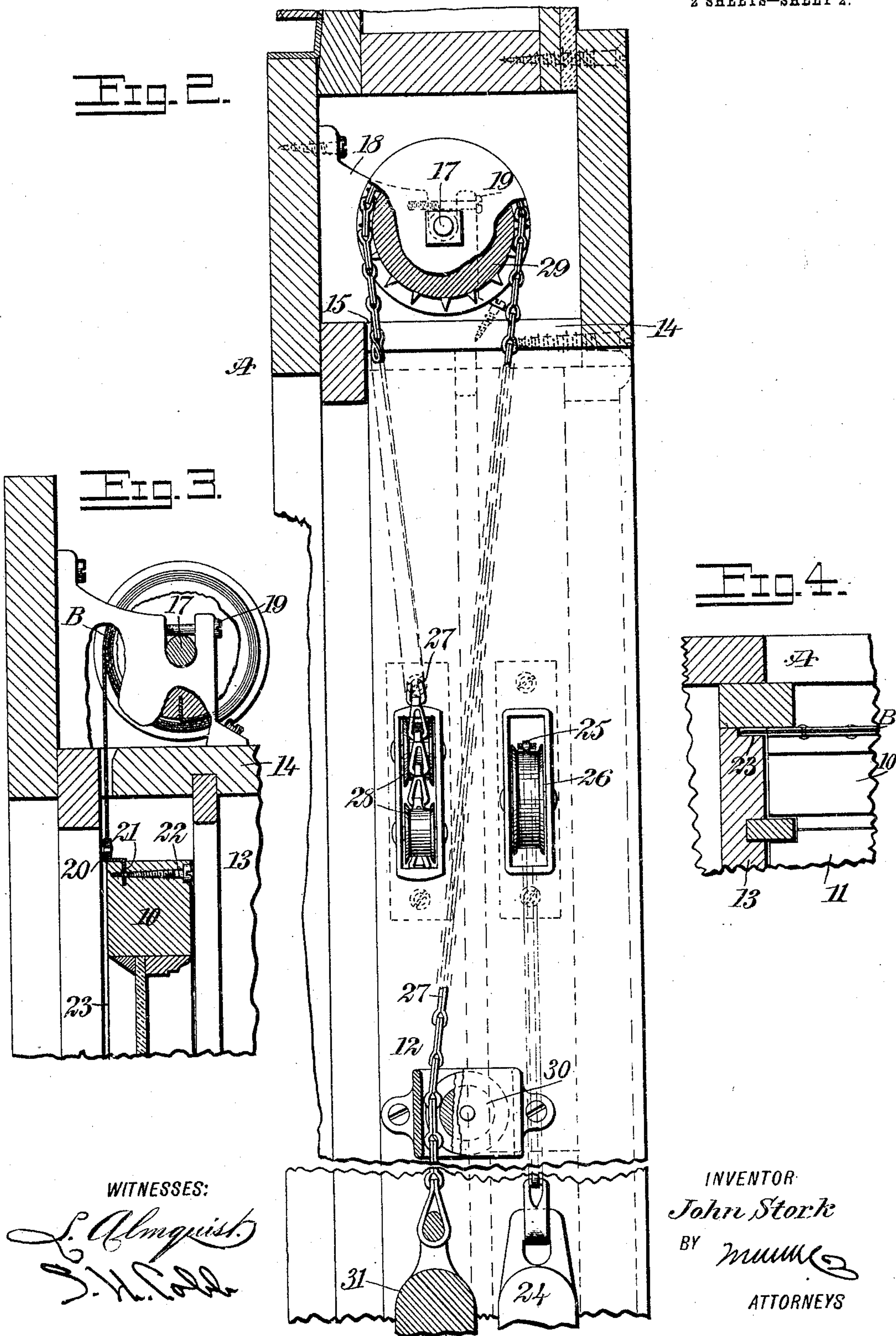
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2 SHEETS—SHEET 2.

Fig. 2.

Fig. 3.

Fig. 4.



WITNESSES:

*L. Almquist.*  
*S. H. Caldwell*

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# UNITED STATES PATENT OFFICE.

JOHN STORK, OF SAN DIEGO, CALIFORNIA.

## SCREEN.

No. 799,416.

Specification of Letters Patent.

Patented Sept. 12, 1905.

Application filed January 6, 1905. Serial No. 239,852.

*To all whom it may concern:*

Be it known that I, JOHN STORK, a citizen of the United States, and a resident of San Diego, in the county of San Diego and State of California, have invented a new and Improved Screen, of which the following is a full, clear, and exact description.

My invention relates to window-screens, and more particularly to those which roll in the manner of a curtain and which are especially adapted to cooperate with the upper window-sash. Its principal objects are to provide an efficient arrangement in which positive movement in operation is imparted to both the screen and its support.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a broken front elevation of a window and its frame with one embodiment of my invention applied thereto, one side being in section. Figs. 2 and 3 are vertical transverse sections on the lines 2 2 and 3 3, respectively, of Fig. 1; and Fig. 4 is a horizontal sectional detail on the line 4 4 of Fig. 1.

A designates a window-frame in which move an upper sash 10 and a lower sash 11. This frame may comprise, as usual, casings 12, having at their inner sides jambs 13 and crossed at the top by a lintel 14. In the lintel adjacent to the outer vertical plane of the sash is a slot 15, and mounted above the lintel with its periphery lying substantially over said slot is a roll or support 16, which may be carried upon journals 17, rotatable in bearings 18, fixed to the frame. The bearings are shown as open at the tops, screws 19 being provided to retain the journals in place. Wound upon the roll with its inner end secured thereto is a screen B of suitable reticulated material, and to the outer extremity of this screen is attached an angle-bar 20, having one arm 21 lying in a depression in the top of the upper sash, in which it may be secured by screws 22. In each of the jambs are preferably located vertical slots 23, in which the edges of the screen move to furnish a complete closure.

The lower sash, as illustrated, is balanced at each side by a weight 24, moving in the casing, which is fastened upon the end of a

chain or flexible member 25, extending over a supporting-roll 26, set in the jamb, and then being fixed to the sash, as is customary. To each side of the upper sash is secured a similar flexible member 27, which first passes upwardly between pairs of guide-rolls 28 28, mounted in the jamb, and then over a toothed wheel 29, fastened upon the support-journal 17 outside its bearing. It then descends over a roll 30, carried inside the casing and directing it to one side of the lower counterbalance, and has at its end the weight 31.

It will be seen that as the upper sash is raised or lowered the screen moves with it, being drawn off or rolled upon its support, which at the same time is positively rotated by the engagement of the sash-chain. In this manner a constant closure of the window-opening, either by the sash or screen, is secured and the change effected with a single movement.

In addition to the usual advantages of this class of screens, such as its sightliness and durability, it is always kept tight, and kinking or distortion upon the roll is rendered impossible, while the movement of the sash is utilized to secure these results without complication.

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

The combination with a window-sash and its frame, the latter having a lintel in which is a slot and jambs provided with openings, of bearings mounted upon the lintel, a roll having journals rotatable in the bearings, toothed wheels fixed to the roll outside the bearings, a pair of guide-rolls situated in each of the jamb-openings, chains secured to the sash and passing between the guide-rolls and over the toothed wheels, weights attached to the free ends of the chains, and a screen fixed to the roll and sash and projecting through the lintel-slot and into the jamb-openings.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN STORK.

Witnesses:

WM. JAMESON,  
F. M. FEGAN.