No. 875,961. PATENTED JAN. 7, 1908.

M. SOLMSON.

WINDOW SCREEN.

APPLICATION FILED MAR. 1, 1907.

Fig. 1.

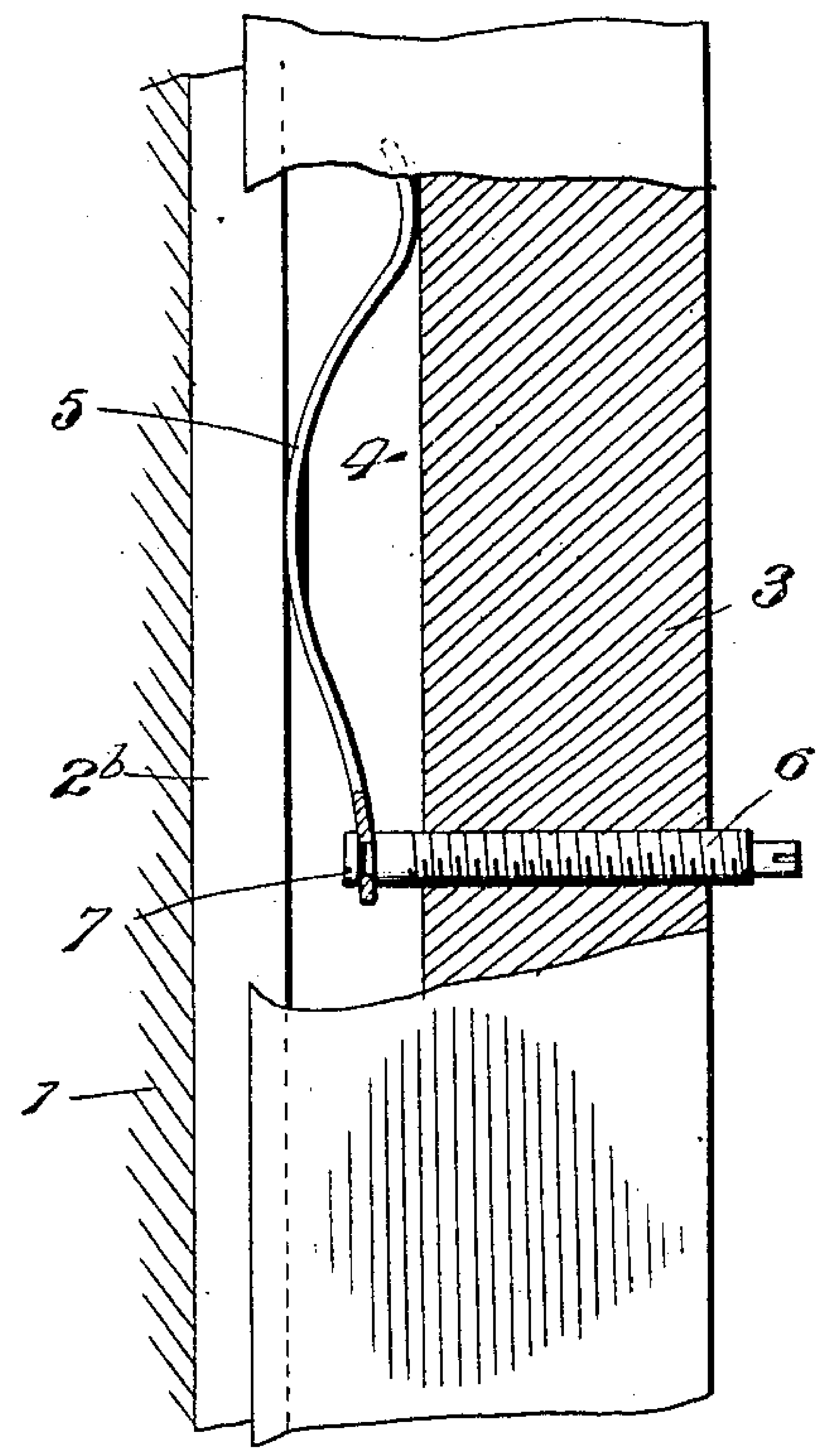
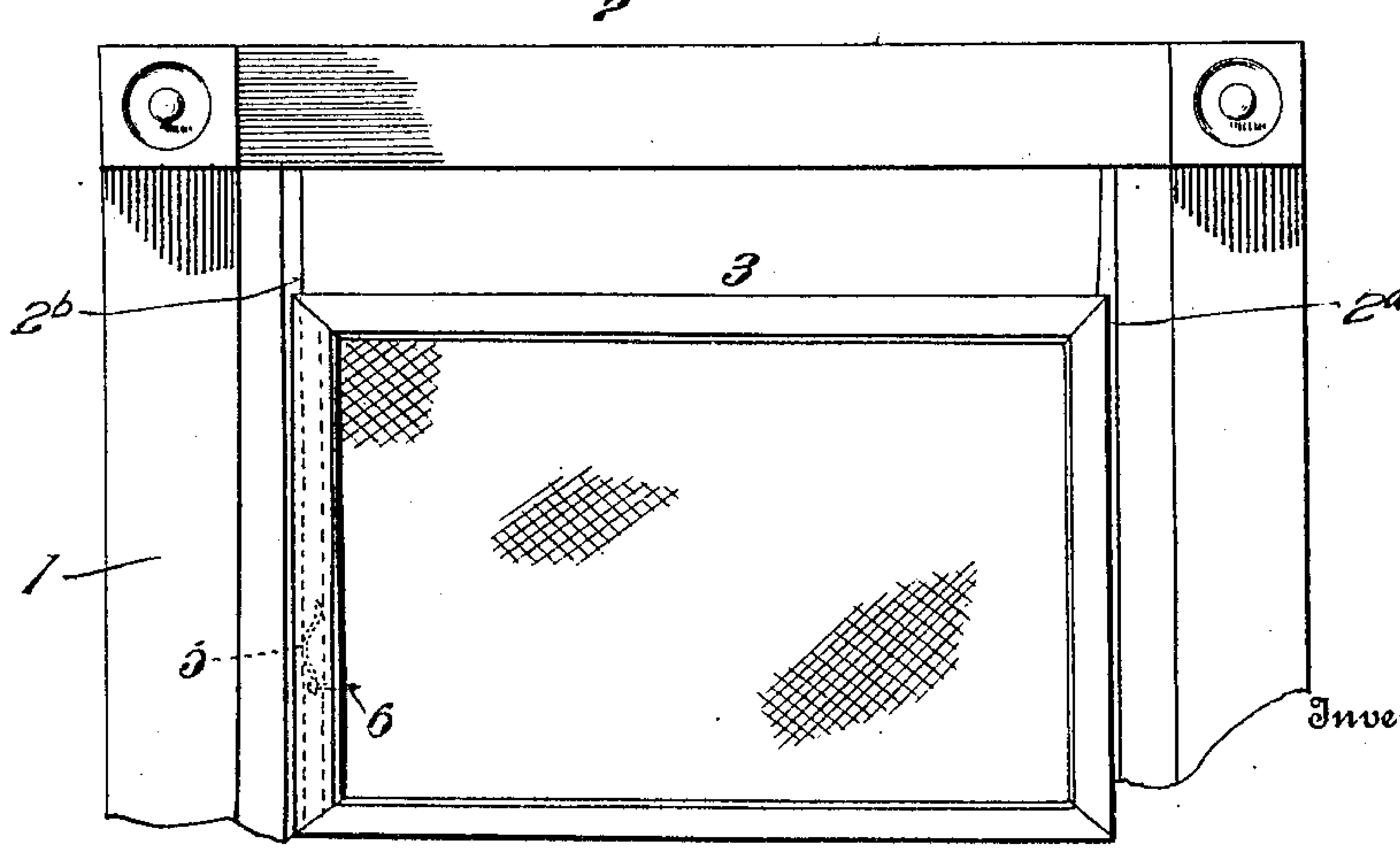


Fig. 2.



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WINDOW-SCREEN.

No. 875,961. Specification of Letters Patent. Patented Jan. 7, 1908.

Application filed March 1, 1907. Serial No. 359,964.

To all whom it may concern:

Be it known that I, MOSES SOLMSON, a citizen of the United States of America, and resident of the city of Baltimore, State of Maryland, have invented certain new and useful Improvements in Window-Screens, of which the following is a specification.

My invention relates to a window screen, and has for its purpose to supply such a screen with a device having a double function. First, to give to the screen a sufficient tension upon its guides to hold it firmly in place at any position, and secondly, to give to the screen capacity for adjustment upon its guides so that its tension thereon will remain constant or can be adjusted to be constant notwithstanding shrinkage of the frame of the screen or of the window.

Heretofore it has been customary to provide one side of the screen with a bow spring for the purpose of producing tension upon the guides and the other side of the screen with an independent positively adjustable portion, by which the width of the screen could be independently adjusted. I have combined these two devices in one, and I have provided the ordinary bow tension spring with means for adjusting its stationary end so that it may be placed upward against the guides as the screen shrinks or the window expands and the desired adjustment of size attained, while the uniformity of tension of the screen is retained.

In the drawings,—Figure 1 represents a vertical section of my device as applied to the side of a window frame. Fig. 2 represents a window frame with a screen frame in place.

Referring to the figures,—1 is a window frame having guides 2^a—2^b upon exterior opposite vertical sides.

3 is a frame designed to carry the screen having a shallow groove on one side engaging the guide 2^a, and on the other side a deep groove in which is mounted the necessary tension spring, as shown in Fig. 1. The deep groove in Fig. 1 is marked 4.

5 is the usual form of bow spring having a grooved surface at the center of its bow which fits upon and rides upon the guide 2^b.

6 is a screw, threaded through the side of the frame 3 and having a slot upon its inner end. Upon the outer end of the screw is a head 7 which passes through a hole in the end of the spring 5. The head is clenched down upon the spring in such a manner as to hold the spring firmly in place but to permit the screw to turn. The operation of the device is simple. An adjustment of the screw 6 will force the end of the spring 5 in or out as the case may be and change the position of the bearing surface of the spring 5 in its relation to the guide 2^b. Thus a shrinkage of the frame may be taken up and a uniform tension of the spring always maintained.

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

1. In a window frame, the combination of a window screen having grooved edges and adapted to fit upon and slide upon vertical guides in the window frame, a tension spring located in one of the grooves of the screen combined with a screw swiveled to one end of the spring and tapped through the screen for adjustment of the spring from the interior of the screen without removing it from the window.

2. In a window frame, a combination of a window screen having grooved edges, and adapted to fit upon and slide upon vertical guides in the window frame, the combination of a tension spring carried by the screen and bearing on the frame, and an adjusting means, one end of the spring having a swivel connection with the adjusting means, and adapted to be moved by it toward and from the frame to regulate the tension of the spring and the other end of which has a sliding bearing on a flat surface on the screen.

3. In a window frame a combination of a window screen having grooved edges, and adapted to fit and slide upon vertical guides in the window frame, an adjusting screw, and a bow spring, one end of which rests on a flat surface on the screen, and the other end of which has a swivel engagement with the screw, and is adapted to be adjusted by it toward and from the frame, the back of the bow engaging the window frame to create friction between the screen and the frame, the amount of which is regulated by turning the screw.

Signed by me at Baltimore, Maryland, this 14th day of February, 1907.

MOSES SOLMSON.

Witnesses:

B. SCHROETER,

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