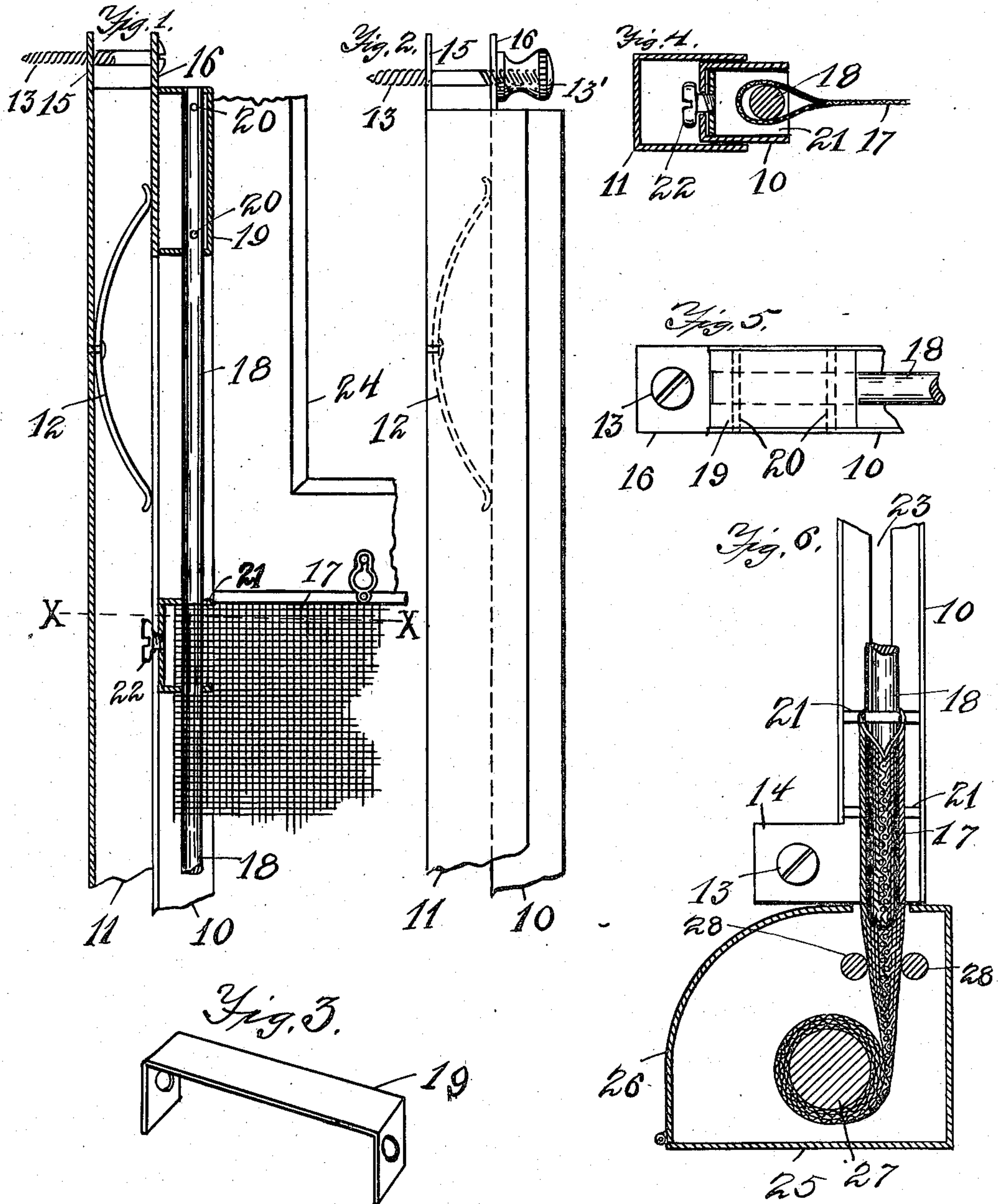


No. 881,507.

PATENTED MAR. 10, 1908.

C. J. WALLEN.
ROLLER WINDOW SCREEN.
APPLICATION FILED FEB. 6, 1907.



Witnesses

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ROLLER WINDOW-SCREEN.

No. 881,507.

Specification of Letters Patent.

Patented March 10, 1908.

Application filed February 6, 1907. Serial No. 356,013.

To all whom it may concern:

Be it known that I, CARL J. WALLEN, a citizen of the United States, and resident of Jamestown, New York, have invented new and useful Improvements in Roller Window-Screens, of which the following, taken in connection with the accompanying drawing, is a full, clear, and exact description.

The invention relates to improvements upon the window screen construction shown, in my Letters Patent No. 804,641, bearing date November 14th, 1905.

The objects of the present improvement are to provide means for better guiding the sides of the screen cloth and follow the intervening space between the edges of the screen cloth and the window frame, and at the same time to stretch the screen cloth so as to improve its appearance and to enable it to be rolled and unrolled the more easily.

In the drawings, Figure 1 is a lengthwise sectional view of the co-extension of the channel pieces which form the adjustable extension sides for the screen cloth; and Fig. 2 is a side elevation of the same. Fig. 3 is a perspective view of detail of the clip for the upper end of the guide rod. Fig. 4 is a sectional view at line X—X in Fig. 1. Fig. 5 is a plan view of the upper end of one of the channel pieces and guide rod. Fig. 6 is a plan view of the lower end of the channel piece, a sectional view of the screen and roller and box for the same.

Similar numerals refer to corresponding parts in the several views.

The numeral 10 indicates the inner of the extension channel guide strips and 11 the outer of said channel guide strips. Outer channel strip 11 is much deeper than inner channel strip 10 so as to entirely cover the inner channel strip when desired and also so that the inner channel strip may be adjusted according to the amount of stretch desired for the screen cloth 17 and so that the space between the edges of the screen cloth and the frame may be covered. The channel pieces 10 and 11 are placed one within the other as above stated and a leaf spring 12 is attached in the inner side of channel piece 11 and bears upon the bottom of channel strip 10 to hold the two strips apart and so that they may be adjusted by means of screw 13 through lugs 15 and 16 at the upper end and lug 14 at the lower end and secured into the window casing. One spring 12 is usually sufficient for a side, though more may be

used. Screw 13 may have an adjusting nut 13' to easier adjust the two channel strips. The inner channel strip 10 contains the guide rod 18 for the edge of the screen cloth 17, the screen cloth enveloping the rod 18 with a suitably stitched loop along the edge of the screen, as shown in Fig. 6, the lower end of rod 18 being free and slightly rounded so that the screen cloth will play over the same freely as it is rolled and unrolled. The upper end is supported in the strap piece or clip 19, the rod 18 extending through the clip and having rivets 20 extending through the rod 18 and the sides of channel piece 10, as shown in Figs. 1 and 5. The rivets 20, combined with the clip 19 and channel 10 hold the rod 18 with great rigidity.

The upper edge of the screen cloth 17 is held in place on rod 18 by the inverted bracket piece 21 which is made in much the same form as bracket piece 19 and inverted so that the flat back of the clip slides upon the inner side of the channel piece 10. In the bottom of channel piece 10 is the slot 23 and the screw 22 is inserted in strap piece 21 and slides back and forth in slot 23, thereby holding the rod 18 and the screen cloth 17 to which piece 21 is attached firmly in place, and at the desired tension, as adjusted by screws 13 and spring 12. It is now apparent that the screen cloth 17 may be unrolled from the spring roller 27 when drawn up or down by the movement of the window frame 24 and the guide clips 21 hold the screen cloth in place and as it passes in and out of box 25 through the opening therein and between guide rolls 28 which hold it in form across the window. Box 25 has lid or door 26 on its front for admission to roll 27.

It is apparent that any desired tension can be given to the screen cloth by means of the extension channel pieces 10 and 11 and their adjusting means. It is also apparent that the screen cloth will be held firmly in place when used as a screen and that the edges next to the window are thoroughly protected.

I claim as new:—

1. In combination with a roller screen having a looped edge, a guide rod working in said loop, a channel guide strip, a double clip to hold said guide rod in the upper end of said channel guide strip, said channel guide strip having a slot and a clip on said screen slidably interlocking in said slot.

2. In combination with a roller screen

having a looped edge, a channel guide strip, a guide rod in said channel strip working in said loop, a second channel strip over said channel guide strip, and means for adjusting 5 said guide strips as to one another.

3. In combination with a roller screen, two channel guide strips for the edge of the screen, a spring between said guide strips, and screws to adjust said guide strips as to 10 one another.

4. In combination with a roller screen, a guide rod for the edge of said screen, a channel guide strip for said guide rod, a clip attached to said screen and slidably inter- 15 locked with said channel guide strip, a second channel strip over said channel guide strip, and adjusting means for said channel strips as to one another, substantially as and for the purpose specified.

20 5. In screen construction, a roller screen 17 having a looped edge, a guide rod 18 working in said loop, a channel guide strip 10, a double holding clip 19 and rivets 20 for said guide rod in said channel strip, said channel

strip having a slot 23, and a clip 21 attached 25 to said screen and slidably engaging in said slot, substantially as and for the purpose specified.

6. In screen construction, a roller screen 17 having a looped edge, a guide rod 18 work- 30 ing in said loop, a channel guide strip 10, a double holding clip 19 and rivets 20 for said guide rod in said channel strip, said channel strip having a guide slot 23, a clip 21 at- 35 tached to said screen and slidably engaging in said slot, a second channel strip 11 over channel strip 10, a spring 12 between said channel strips, and screws 31 for adjusting said strips, substantially as and for the pur- 40 pose specified.

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

CARL J. WALLEN.

Witnesses:

I. A. ELSWORTH,
A. W. KETTLE.