

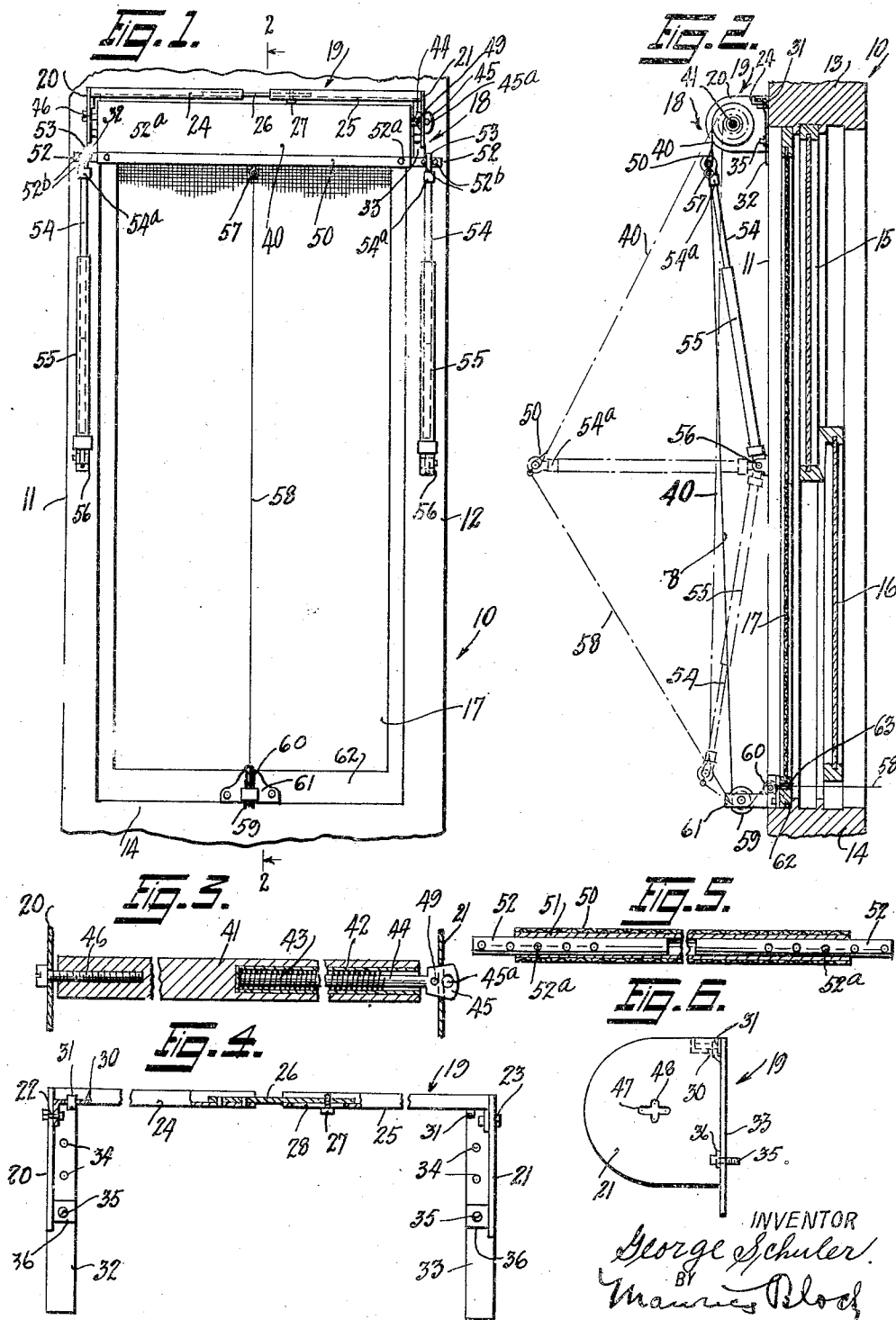
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AWNING

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AWNING

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This invention relates to improvements in awning construction and has for one of its objects the provision of an awning that may be readily operated from the inside of the house without removing the wire screen that may be in place in the window frame, and thus prevent any mosquitoes or other insects from entering the house while either lowering or raising the awning.

Another object of the invention is to provide an awning that will automatically adjust itself lengthwise so that it may be used in connection with windows of different heights.

A further object of the invention is to provide an awning of this nature with a suspension frame that may be readily adjusted to fit window frames of various widths.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts hereinafter more fully described and claimed.

In the drawings forming a part of this specification, in which I have shown one embodiment of my invention:—

Figure 1 is a front view in elevation of my improved awning, looking from the outside of the house;

Fig. 2 is a vertical sectional view taken on line 2—2, Fig. 1;

Fig. 3 is a longitudinal sectional view of the awning roller and suspension brackets partly broken away;

Fig. 4 is a front view partly in section of the awning suspension frame;

Fig. 5 is a longitudinal sectional view of the bottom or free end of the awning, and

Fig. 6 is an end view of the suspension frame looking from the right of Fig. 1.

Referring to the drawings in detail, 10 indicates a window frame provided with side members 11 and 12 and top and bottom members 13 and 14 respectively, and mounted in the said frame are the usual top and bottom sashes 15 and 16 as well as a wire netting screen 17.

An awning generally indicated as 18 is suspended from a frame 19 located at the top of the window frame and secured to the side members 11 and 12. This suspension frame

comprises left and right side roller brackets 20 and 21 to which are secured at 22 and 23 channel members or cross-pieces 24 and 25. These cross-pieces are adjustably connected by a connector 26 secured to the member 24 and adjustably maintained on the member 25 by a screw 27 passing through a slot 28 and threaded into the said connector 26. The members 24 and 25 are each provided with a slot or opening 30 adapted to receive prongs 31 bent up from suspension brackets 32 and 33 secured respectively to the window frame members 11 and 12. These brackets are secured to the window frame by screws passing through openings 34 in the said brackets. Screws 35 passing into the frame members 11 and 12 through openings in lugs 36 on the roller brackets 20 and 21 and through like openings in the brackets 32 and 33 together with the lugs 31, maintain the frame 19 in place.

The awning proper or curtain designated as 40 is secured at one end, to a roller 41 provided at one end thereof with a metallic tube 42 (see Fig. 3) having secured thereto the usual power spring 43 which is secured at its opposite end to a rod 44 terminating in a flattened end 45 which forms the rolling pivot for the roller at one end. A screw 46 journaled in the bracket 20 and threaded into the roller 41 at the opposite end forms the other rolling pivot or bearing. The bracket 21 is provided with a slot 47 somewhat longer than the head 45 on the rod 44 to permit of easy entry therethrough of the said head and a shorter slot 48 crossing the slot 47 at the center thereof and at right angles thereto, to which position the head 45 is turned to prevent the rod 44 from becoming unseated, the spring 43 tending to normally maintain the head 45 in the slot 48. A pin 49 in the head 45 bears against the inside surface of the bracket 21 and prevents any movement of the roller in this direction.

The curtain 40 terminates at the free end thereof in a fold or pocket 50 through which passes a tube 51 (see Fig. 5) provided at its ends with adjustably mounted rods 52 extending partway into the said tube 51 and extending outwardly therefrom. These rods

52 pass through ears 53 of rods 54 telescopically arranged in tubular arms 55 to form curtain extension means and the said arms 55 are hingedly secured to brackets 56 secured to the side frame members 11 and 12. The free end of the awning curtain 40 is further provided with an eye bolt 57 which has secured thereto a cord 58 passing around pulleys 59 and 60 rotatably mounted in a bracket 61 which may be secured to the frame 62 of the screen 17 or if desired to the lower window frame member 14 and the said cord 58 passes through an opening 63 in the screen frame into the inside of the room where it may be suitably tied.

The operation of the awning and the mode of attaching same over a window is as follows:—The suspension frame 19 is first adjusted to the proper size to conform with a given width of window frame, by loosening the screw 27 and moving the members 24 and 25 either inwardly or outwardly as the case may be to the required dimension, and then tightening the said screw 27. The brackets 32 and 33 are then secured to the window frame members 11 and 12 so that the distance between the prongs 31 is equal to the distance between the slots 30 in the members 24 and 25. The frame 19 is then suspended from the said prongs 31 and screws 35 are passed through the lugs 36 into the window frame members 11 and 12. The roller 41 with the curtain 40 thereon is then mounted in the side brackets 20 and 21, it being understood in this connection that the rod 44 may be extended to the required length against the tension of the spring 43 and the bearing screw 46 may also be extended for the said purpose. The roller 41 may then be wound up by inserting a rod or the like into an opening 45^a in the head rod 45. The rods 52 in the tube 51 are then adjusted inwardly or outwardly as the case may be and cotter pins 52^a or the like are passed through openings 45 in the loop portion 50 and the tube 51 to maintain the rods 52 in adjusted position. The telescopically arranged arms 54 and 55 are then suspended from the rods 52 and the brackets 56 are secured to the frame members 11 and 12 at approximately the vertical center line thereof and the cord 58 is threaded through the pulleys 59 and 60 and the opening 63 and the awning may then be drawn down if desired. Pins 52^b passing through the rods 52 will maintain the rods 54 in proper position.

Upon drawing the cord 58 the awning 40 will move down carrying with it the rods 54 until the enlarged portions 54^a make contact with tubular arms 55. Any further drawing of the cord will revolve the said arms on their pivots to either of the dot and dash positions shown in Fig. 2 or any intermediate position.

Owing to the fact that the rods 54 extend a considerable distance into and out of the

tubular members 55, it is possible to use a single size of such arms and rods for windows of various heights, and due to the lateral adjustment of the suspension frame and the adjustably mounded rods 52, it is possible to make but a single size of such an awning as I have shown and described to accommodate various sizes of windows.

From the foregoing, it will be seen that I have provided an awning that may be adjusted laterally for various widths of windows and one that is self adjustable in a vertical direction. It will also be seen that I have provided an awning that is operable from the interior of the house when used over windows having screens permanently fixed to them.

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

1. A window awning comprising a curtain adapted to vertically cover the entire length of the window when fully extended, a longitudinally adjustable roller on which said curtain is mounted to roll, a longitudinally adjustable frame in which the roller is mounted, a tube in the free end of the curtain, self-adjusting and telescopically arranged curtain extending means hingedly supported on the window frame adapted to swing an equal distance on each side of a horizontal center line when the curtain is fully extended, rods adjustably mounted in the tube in operative engagement with the curtain extending means, means suspended from the free end of the curtain whereby the said curtain may be rolled or unrolled, and a guiding roller for the last mentioned means, mounted below and in front of the pivot of the curtain extending means.

2. In a window awning adapted to be longitudinally extended over the entire length of the window, a spring roller, a bracket in which the roller is mounted to rotate, a curtain secured at one end to the roller, self-adjusting telescopically arranged curtain extending means in engagement with the free end of the awning, pivotally supported on the window frame, means suspended from the free end of the curtain whereby the said curtain may be rolled or unrolled, and a guide for the last mentioned means, mounted below and in front of the center of the extending means pivot, to permit the said extending means to assume an angular position when fully extended.

3. In a window awning adapted to be longitudinally extended over the entire length of the window, a spring roller, a bracket in which the roller is mounted to rotate, a curtain secured at one end to the roller, a telescopically arranged and self-adjustable curtain extending means in engagement with the free end of the curtain, a bracket in which the said extending means is angularly and

hingedly mounted for pivotal movement of substantially an equal distance on each side of a horizontal centre line when the awning is fully extended, and means for limiting the said movement from the initial angular position to a final angular position.

In testimony whereof I hereunto affix my signature.

GEORGE SCHULER.

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