Feb. 16, 1932. E. P. LE GORE 1,844,967

SCREEN

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Fig. 1.

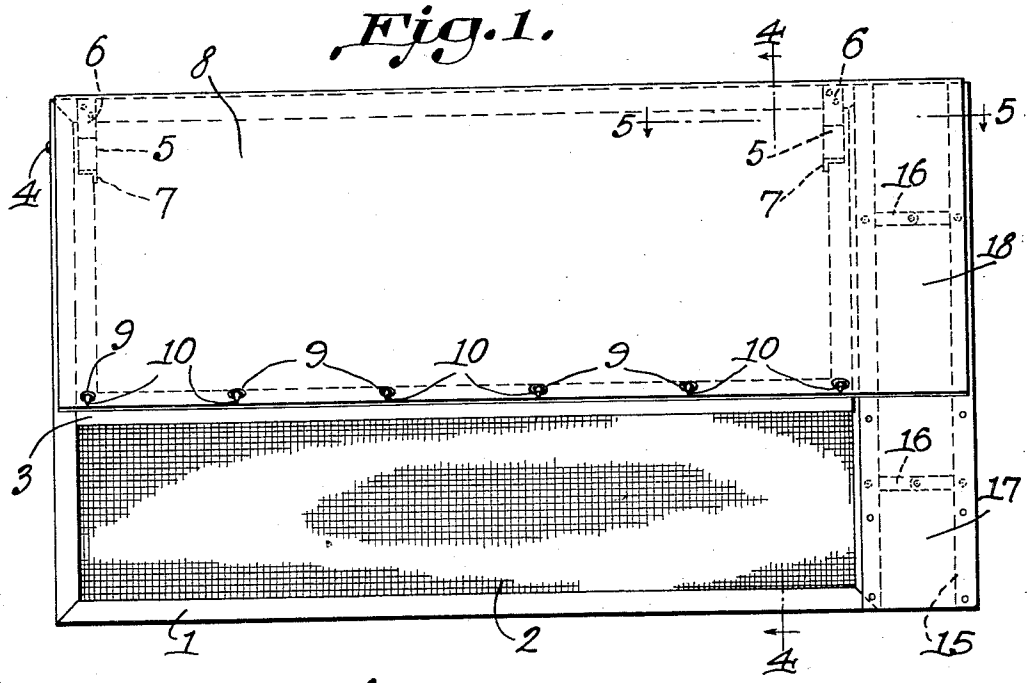
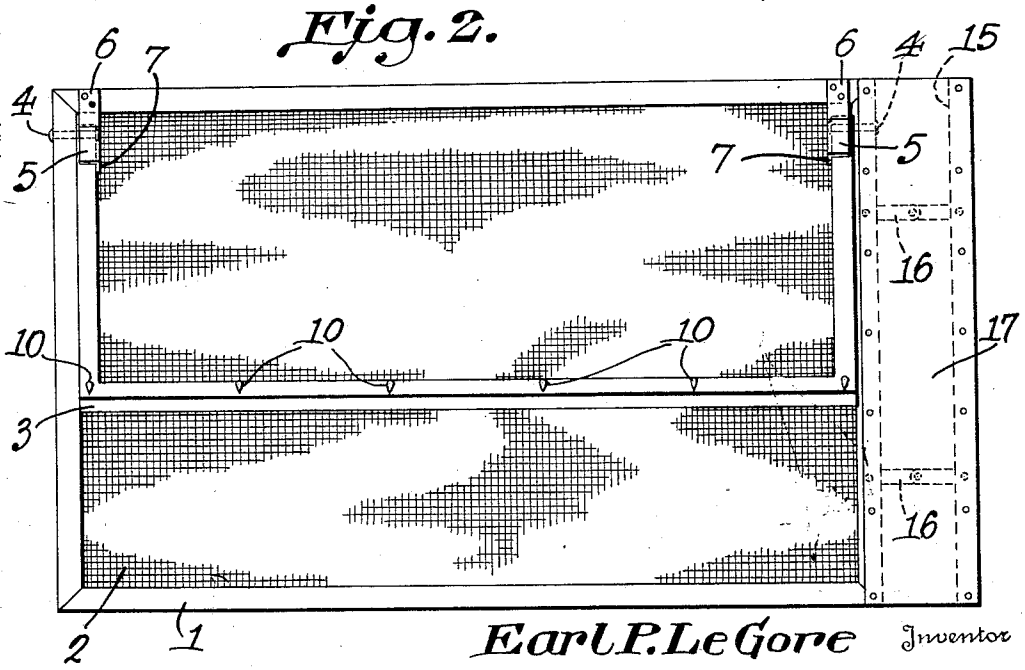


Fig. 2.



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Fig. 3.

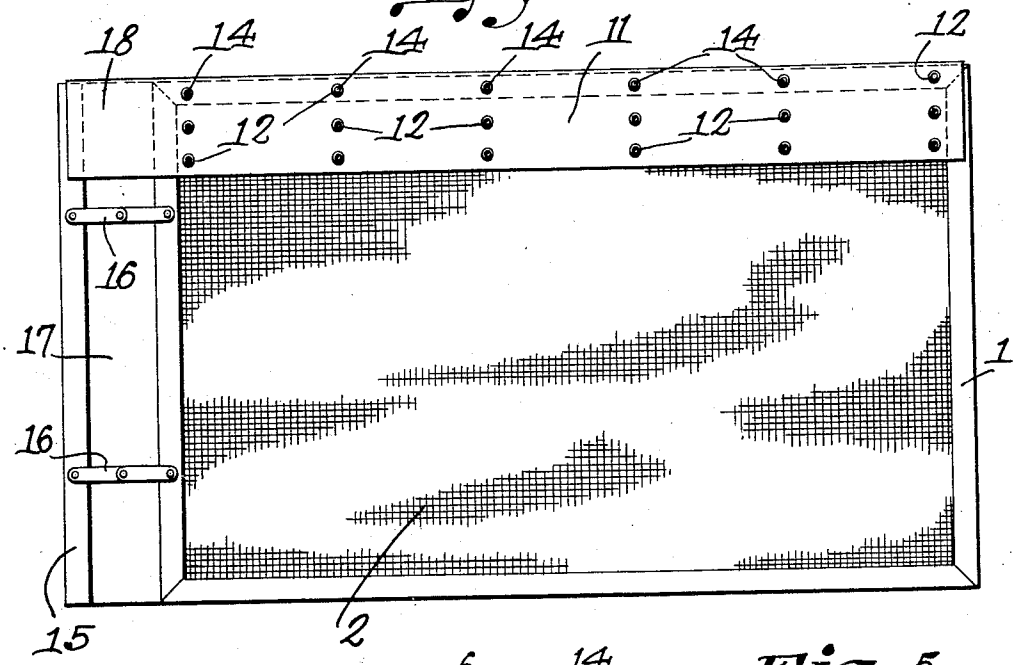


Fig. 4.

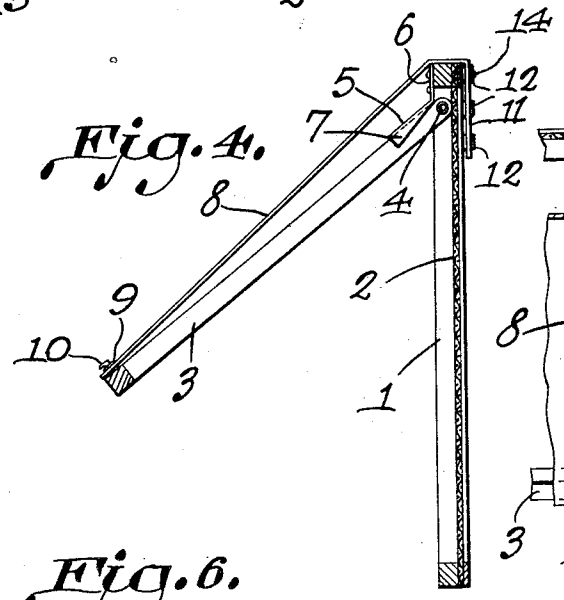


Fig. 5.

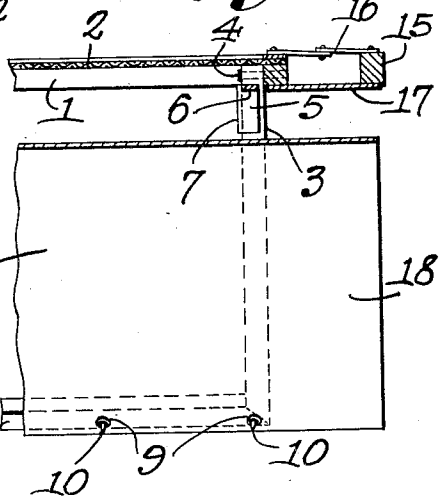
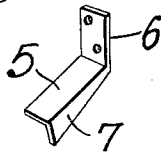


Fig. 6.



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Patented Feb. 16, 1932

1,844,967

UNITED STATES PATENT OFFICE

EARL P. LE GORE, OF PHILADELPHIA, PENNSYLVANIA

SCREEN

Application filed February 16, 1931. Serial No. 516,238.

This invention aims to provide a novel means whereby an awning may be combined with a fly screen, it being possible to remove the awning when desired, leaving the screen unobstructed, and novel means being provided for holding the awning at adjusted angles. Another object of the invention is to supply a device of the class described which will be capable of being accommodated readily to windows of different widths.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Figure 1 shows in front elevation, a device constructed in accordance with the invention;

Figure 2 is a front elevation in which the canopy portion of the awning has been removed;

Figure 3 is a rear elevation;

Figures 4 and 5 are sections taken, respectively, on the lines 4—4 and 5—5 of Figure 1:

Figure 6 is a perspective showing one of the stops.

In carrying out the invention, there is provided a rectangular main frame 1, carrying a screen 2, which may be made of netting. The numeral 3 marks a U-shaped auxiliary frame which is of such width that it can fit closely between the side bars of the main frame 1. The height of the U-shaped auxiliary frame 3 is somewhat less than the height of the main frame 1. The upper, rear ends of the side arms of the frame 3 are pivoted at 4 to the upright portions of the main frame 1, near to the top of the main frame.

Stops 5 are provided, one of them being shown in Figure 6. The stops 5 have upwardly extended attaching flanges 6 which are mounted on the top rail of the main frame 1. The stops 5 and the flanges 6 are disposed at an obtuse angle with respect to each other. Each of the stops 5 has a depending wing 7 on its inner edge. When the auxiliary frame 3 is swung upwardly to the position of Figure 4, the upward movement of the frame 3 is limited by engagement with the stops 5, the wings 7 overlapping the arms of the frame 3, as shown in Figure 4, to prevent the frame 3 from moving to the right or to the left in Figure 3 and straining the pivotal mountings 4 of the frame 3.

The numeral 8 marks a canopy, which, with the frame 3, form an awning. Any suitable means may be supplied for connecting the lower end of the canopy 8 detachably to the lower end of the auxiliary frame 3. If preferred, the lower end of the canopy 8 may be provided with eyes 9, adapted to be engaged by hooks 10 on the lower, forward edge of the frame 3. The canopy 8 extends upwardly across the top of the main frame 1 and has a depending end 11. In the end 11 are located any desired number of rows of eyes 12, spaced apart longitudinally of the said end 11, as disclosed in Figure 3. The eyes 12 are adapted to be engaged by studs 14 which extend rearwardly from the top portion of the main frame 1. Any equivalent of the eyes 12 and the studs 14 may be used to effect a detachable connection between the upper, rear portion of the canopy 8 and the top part of the main frame 1.

The auxiliary frame 3 may be held at adjusted angles, by engaging the eyes 12 with the studs 14. The upward swinging movement of the frame 3, however, is limited by engagement with the stops 5. When the device is arranged as shown in Figure 4, the operator has the combined advantages of a fly screen and an awning. In the event that an awning is not desired, the canopy 8 can be detached at its lower end from the frame 3, and be detached at its upper end from the frame 1. Then the frame 3 may be swung downwardly and rearwardly, to hang within the frame 1, the screen 2 being obstructed to no appreciable extent by the frame 3.

It is desirable to have the device so made

that it can be fitted readily in windows of different widths. With this end in view, a vertical rail 15 is disposed in spaced relation to one end of the main frame 1. Stiff links 16 are provided. The inner ends of the links 16 are pivotally joined together, and the outer ends of the links are pivoted respectively, to the rail 15 and to the adjacent end of the main frame 1. The links 16 serve to hold the rail 15 in parallel relation to the adjacent end of the frame 1, for adjustment inwardly and outwardly, that is, toward and away from the said end of the frame 1. The numeral 17 marks a flexible extension, made of cloth or any other desired material, and the extension 17 may be waterproof if the manufacturer wishes. The outer edge of the extension 17 is secured to the rail 15, and the inner edge of the extension is secured to one end of the main frame 1. The extension 17 covers the links 16, as shown in Figure 1, so that they cannot be seen from outside the window. By moving the rail 15 inwardly or outwardly, the article is adapted to windows of different widths. At one end, the canopy 8 has a flap 18 which overhangs the extension 17. If the owner intends to use the device in windows having the same width, he can cut off the right hand end of the flap 18 in Figure 1, but if the article is to be moved from one window to another of different width, then the flap 18 can be left at the length shown in Figure 1, since the slack in the flap will not amount to much.

In the device arranged as shown in Figure 4, the window sash is shut down on top of that part of the canopy 8 that extends over the upper edge of the main frame 1, and the device will present all of the advantages of a combined fly screen and awning, the construction being such that the canopy 8 of the awning can be taken off, leaving the owner in possession of a fly screen the area of which is not appreciably diminished by the frame 3, when the frame 3 is swung downwardly from the position of Figure 4, to hang within the frame 1.

In case a quick adjustment is desired, it is not necessary to attach the depending end 11 of the canopy 8 to the top portion of the frame 1, by means of the elements shown at 12—14 in Figures 3 and 4. The operator can simply pull backwardly on the canopy 8 until the frame 3 is disposed at the desired angle, and then shut down the window sash on that part of the canopy 8 that extends across the top of the frame 1.

Having thus described the invention, what is claimed is:

1. In a device of the class described, a main frame, an auxiliary frame pivoted to the main frame for vertical swinging movement, a laterally adjustable extension on one end of the main frame, and a canopy connected at its forward end to the forward portion of the auxiliary frame, the canopy extending backwardly over the upper edge of the main frame and including a flap which overhangs the extension.

2. In a device of the class described, a main frame, an auxiliary frame pivoted to the main frame for vertical swinging adjustment, and a canopy connected at its forward end to the forward portion of the auxiliary frame, the canopy extending back over the upper edge of the main frame, whereby the canopy may be bound between a sash and the upper edge of the main frame, the canopy then being effective as a means for holding the auxiliary frame at adjusted angles with respect to the main frame, the canopy being freely slidable over the upper edge of the main frame and including a rear end depending behind the main frame and of sufficient length to afford a hand hold, whereby an operator behind the main frame can pull on the canopy to bring about the aforesaid angular adjustment of the auxiliary frame.

3. In a device of the class described, a main frame, an auxiliary frame pivoted to the main frame for vertical swinging adjustment, and a canopy connected at its forward end to the forward portion of the auxiliary frame, the canopy extending back over the upper edge of the main frame, whereby the canopy may be bound between a sash and the upper edge of the main frame, the canopy then being effective as a means for holding the auxiliary frame at adjusted angles with respect to the main frame, the canopy being freely slidable over the upper edge of the main frame and including a rear end depending behind the main frame and of sufficient length to afford a hand hold, whereby an operator behind the main frame can pull on the canopy to bring about the aforesaid angular adjustment of the auxiliary frame, and a means for connecting the rear portion of the canopy with the rear surface of the main frame, to render the canopy effective as a means for holding the auxiliary frame positively at adjusted angles with respect to the main frame, the last-specified means being spaced from the upper edge of the main frame, so that said means will not be engaged by the sash when the sash is closed down.

4. In a device of the class described, a main frame, a screen carried by the main frame, an auxiliary frame pivoted to the main frame, a canopy, means for connecting the canopy at its forward end detachably to the forward portion of the auxiliary frame, and means for connecting the rear end of the canopy detachably with the upper portion of the main frame, the canopy constituting means for holding the auxiliary frame at adjusted angles with respect to the main frame, the auxiliary frame being of such size as to swing downwardly within the contour of the

main frame, whereby to minimize the thickness of the device, and said means permitting the canopy to be removed, whereby the canopy will not obstruct the screen when the auxiliary frame lies within the contour of the main frame as aforesaid.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

EARL P. LE GORE.