

J. LOCKHART.
WINDOW AWNING AND SHUTTER.
APPLICATION FILED MAR. 6, 1918.

1,287,366.

Patented Dec. 10, 1918.

FIG. 1.

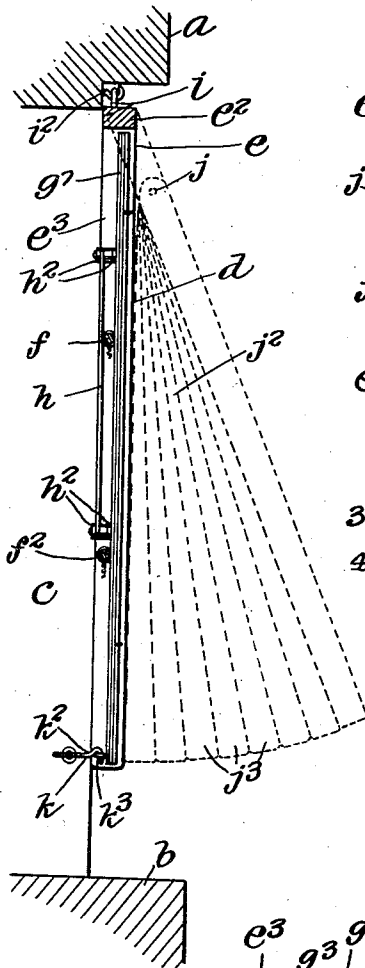


FIG. 2.

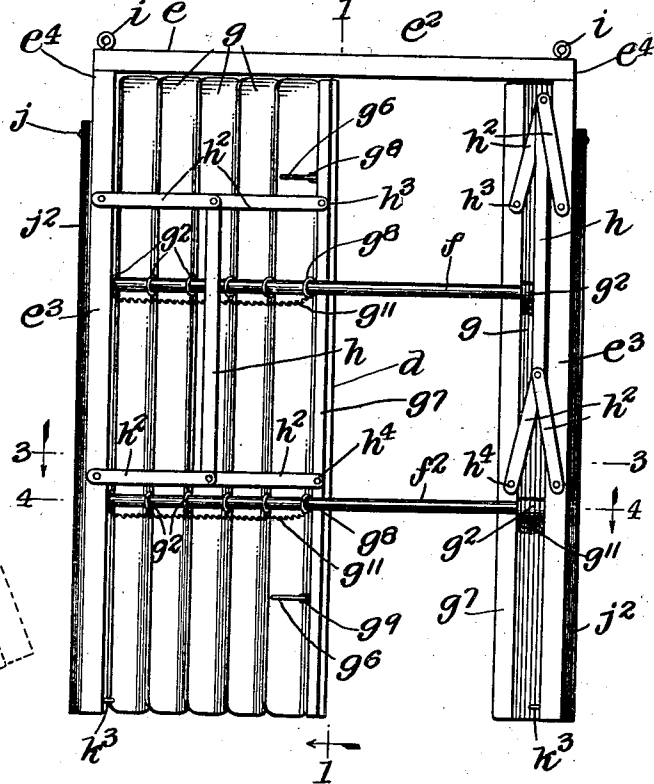
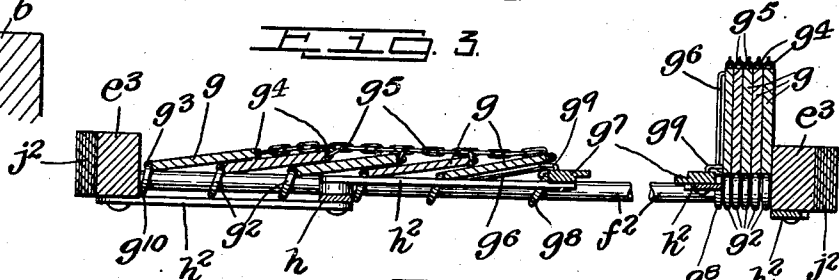


FIG. 3.



UNITED STATES PATENT OFFICE.

JOHN LOCKHART, OF TARRYTOWN, NEW YORK.

WINDOW AWNING AND SHUTTER.

1,287,366.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN LOCKHART, a citizen of the United States, and residing at Tarrytown, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Window Awnings and Shutters, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to window awnings and shutters, and the object thereof is to provide an improved device of this class which is simple in construction, efficient in use and comparatively inexpensive and which may be easily applied whenever such device is required.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which I have shown my improvement applied as a window awning, and in which the separate parts of said improvement are designated by suitable reference characters in each of the views, and in which:

Figure 1 is a section on the line 1—1 of Fig. 2 and showing my improvement applied as a window awning;

Fig. 2 an inside view of the awning detached from the window frame;

Fig. 3 a section on the line 3—3 of Fig. 2, and on an enlarged scale;

Fig. 4 a partial section on the line 4—4 of Fig. 2 and showing only a detail of construction, said detail being on an enlarged scale; and,

Fig. 5 a view similar to Fig. 3 but showing only a part of the construction and showing a modification.

In the drawing forming part of this specification, reference being made to Fig. 1, I have shown at *a*, *b* and *c* the top, bottom and one side of a window frame, and at *d* I have shown my improvement applied to the window frame as an awning.

The awning *d*, in the construction shown, involves a frame *e* comprising a horizontal top member *e*¹ and vertical and parallel side members *e*² connected with the top member *e*¹ in any desired manner at *e*³, and said side members *e*² are also connected by transverse rods *f* and *f*² which are equally spaced between the top and bottom of the side members *e*² of the frame.

In connection with the rods *f* and *f*² I employ two sets of vertically arranged shutter

slats *g*, one at each side of the frame, and said sets of shutter slats, in the construction shown, are each five in number. The shutter slats of each set are provided at one edge with two sets of rings *g*² through which the rods *f* and *f*² pass, and the rings *g*² are loosely connected with the shutter slats at *g*³ in any desired manner, and said shutter slats are provided at their opposite edges with rings, eyes or loops *g*⁴ with which are connected chains *g*⁵, and the inner shutter slats of each set are provided on their inner sides with transverse keepers *g*⁶ and at the inner side of each set of shutter slats is a vertical bar *g*⁷ having rings *g*⁸ loosely connected therewith, said rings *g*⁸ being similar to the rings *g*² of the shutter slats and the rods *f* and *f*² pass through the rings *g*⁸, and said bars *g*⁷ are provided with loop-shaped guides *g*⁹ through which the keepers *g*⁶ pass. The rings *g*² of the outer shutter slats *g* of each set are loosely connected with the side members *e*² of the awning frame at *g*¹⁰ and with this construction the separate sets of shutter slats may be extended as shown at the left of Figs. 2 and 3 so as to entirely close the awning frame, or they may be compactly folded together as shown at the right of Figs. 2 and 3 so as to open said awning frame, or one of said sets of shutter slats may be extended and the other closed.

For the purpose of operating the separate sets of shutter slats in the manner described, I provide toggle devices for each set consisting of central vertically arranged bars *h* provided at their upper and lower ends with link members *h*² which are connected with the side members *e*² of the awning frame, and with the vertically arranged bars *g*⁷ at *h*³ and *h*⁴ and by taking hold of the vertically arranged bars *h* of the toggle devices and moving the same downwardly and upwardly, the separate sets of shutter slats may be opened and closed as shown in Figs. 2 and 3 as will be readily understood.

The awning frame is provided at the top thereof with eye screws or bolt *i* and at the top of the window frame are secured corresponding hooks or similar devices *i*², and by means of this construction the awning frame may be suspended in the window frame and from the top thereof as shown in Fig. 1, and may be swung outwardly to serve as an awning as indicated in dotted lines in Fig. 1, and at the opposite

sides of the awning frame and near the top thereof are pivoted as indicated at j side closure fans j^2 , consisting of separate strips j^3 adapted to open and close in the manner of a fan and when the awning frames are swung outwardly the fans are opened so as to close the sides of the awning as indicated in Fig. 1, and when said awning frame is swung back into its vertical position or closed, the fan devices j^2 fold together, this construction being similar to that shown and described in U. S. Letters Patent No. 1,149,273 granted to me August 10, 1915.

I also provide means k for holding the bottom of the awning frame in its closed position consisting, in the form of construction shown, of hook devices k^2 connected with the sides of the window frame and adapted to engage keepers k^3 secured to the bottom of the awning frame at the opposite sides thereof, and as herein shown and described the awning device is complete in itself and may be suspended in a window frame and used in connection therewith whenever desired, and when the awning frame is closed as shown in full lines in Fig. 1 the separate sets of shutter devices or slats g may be used as ordinary shutters for closing the window.

The rings g^1 and g^2 are connected by chains g^{11} which are secured to the bottom portions of said rings and said chains serve to limit the movement of the shutter slats g , as will be readily understood.

My invention, however, is not limited to an awning device only, as herein shown and described, as it will be understood that shutter devices made and operated in the manner herein set out may be applied as such to window frames in which case the sides of the window frame would take the place of the sides e^3 of the awning frame herein described, and the sides of the window frame would be connected by the rods f and f^2 and the separate sets of shutters or shutter slats would be mounted between the sides of the window frame and the outer link members h^2 of the toggle devices would be connected with the sides of the window frame, and in this way my improved shutter devices could be used as ordinary window shutters, as will be readily understood.

In Fig. 5 of the drawing I have shown a slight modification which consists in substituting for the shutter slats g a piece of canvas or material m such as usually employed in awnings, one side edge of this material being connected with the sides e^3 of the frame e as shown at m^2 and the other side thereof with the vertically arranged bars g^1 as shown at m^3 , and the rings g^2 are connected with said canvas m between the bars g^1 and the sides e^3 of the frame and are slidably mounted on the rods $f-f^2$, and it will

be understood that the canvas m will fold adjacent to the side members e^3 when the vertical bars g^1 are in the position shown at the right of Figs. 2 and 3, but will be stretched taut between the side members e^3 of the frame and the vertical bars g^1 when in the position shown at the left of Figs. 2 and 3 by the lever devices h and h^2 , and both the slats g and the flexible material m will serve, as will be understood, as collapsible and expansible means for closing the space between the frame members e^3 and the bars g^1 .

While I have shown and described the preferred means for mounting and operating the separate sets of shutters or shutter slats, or shutters provided with canvas covering, my invention is not limited to the exact details of construction herein shown and described, and changes therein and modifications thereof may be made, within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

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

1. An apparatus of the class described involving opposite parallel frame members connected by transverse rods, vertically arranged bars mounted in connection with said rods and movable toward and from said frame members, toggle devices arranged in pairs transversely of and connected with said frame members and said bars, and vertically arranged handle bars connected centrally with said toggle devices.

2. An apparatus of the class described involving opposite parallel frame members connected by transverse rods, vertically arranged bars mounted in connection with said rods and movable toward and from said frame members, toggle devices arranged in pairs transversely of and connected with said frame members and said bars, vertically arranged handle bars connected centrally with said toggle devices and collapsible and expansible closure devices mounted in connection with said frame members, rods and first named bars.

3. An apparatus of the class described involving opposite parallel frame members connected by transverse rods, vertically arranged bars mounted in connection with said rods and movable toward and from said frame members, toggle devices arranged in pairs transversely of and connected with said frame members and said bars, vertically arranged handle bars connected centrally with said toggle devices, rings mounted on said rods between said frame members and said bars and collapsible and expansible closure devices connected with said rings and with said frame members and said bars.

4. In an awning device, a frame comprising a transverse top member and parallel

side members, said side members being connected by transverse rods, bars mounted in connection with said rods and movable toward and from said side members, toggle devices arranged in pairs transversely of and connected with said side members and said bars, and handle bars arranged vertically and connected centrally with said toggle devices.

5. In an awning device, a frame comprising a transverse top member and parallel side members, said side members being connected by transverse rods, bars mounted in connection with said rods and movable toward and from said side members, toggle devices arranged in pairs transversely of

and connected with said side members and said bars, handle bars arranged vertically and connected centrally with said toggle devices, and collapsible and expansible closure devices mounted in connection with said frame members, bars and transverse rods.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 4th day of March 1918.

JOHN LOCKHART.

Witnesses:

C. E. MULREANY,
H. E. THOMPSON.