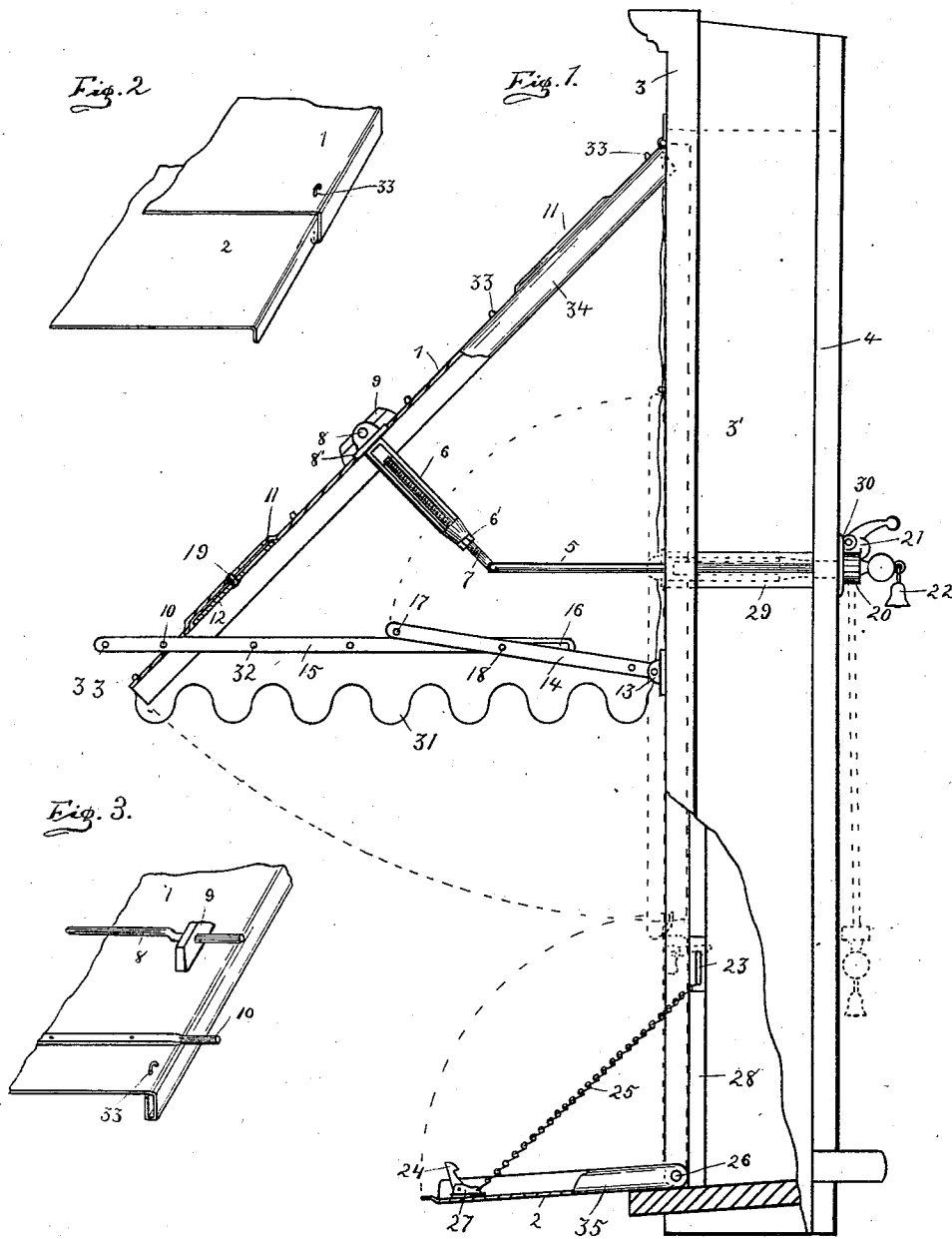


(No Model.)

W. LASH.
COMBINED AWNING AND FIRE AND BURGLAR PROOF SHUTTER.
No. 529,737.

Patented Nov. 27, 1894.



WITNESSES:

Walter G. Burns.

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UNITED STATES PATENT OFFICE.

WILLIAM LASH, OF AVILLA, INDIANA, ASSIGNOR OF ONE-HALF TO DOMINIC DUEHMIG, OF SAME PLACE.

COMBINED AWNING AND FIRE AND BURGLAR PROOF SHUTTER.

SPECIFICATION forming part of Letters Patent No. 529,737, dated November 27, 1894.

Application filed August 31, 1894. Serial No. 521,795. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LASH, a citizen of the United States, residing at Avilla, in the county of Noble, in the State of Indiana, have invented certain new and useful Improvements in a Combined Awning and Fire and Burglar Proof Shutter; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in combined awning and fire and burglar proof shutters, specially designed for use upon country school houses and churches and upon summer cottages at pleasure resorts.

The object of my invention is to provide a cheap and substantial fire and burglar proof shutter so constructed and arranged as to be adapted for use as a convenient and efficient awning which may be used upon dwellings, office buildings, hotels and all other situations in which either awnings or burglar proof shutters are desirable; but my improvement is specially designed and adapted for use upon public and private buildings which are vacant a considerable portion of the year, as school houses, summer cottages, and the like, and also upon buildings exposed to danger of fire from neighboring or adjacent buildings.

My invention comprises a hinged or pivoted metallic shutter, composed of either one or two sections, the said shutter having suitable operating rods extending through the window frame and terminating in operating knobs or handles, having an alarm bell attached, the said shutter being also provided with side curtains and means for securing the same.

The object of my invention is accomplished by the mechanism illustrated in the accompanying drawings in which similar figures of reference indicate corresponding parts throughout the several views.

Figure 1 is a side elevation of a window frame partly in section, with my invention in position thereon for use as an awning, the

shutter being also in section. Fig. 2 is a detail of the telescoping or slidable lower end of the metallic shutter. Fig. 3 is a detail of the loosely mounted transverse rod for the operating rods, and also of the cross-rod for the outer end of the awning-stays.

Referring now to the drawings, at the top and upon the outer face of the window frame 3, of any desired dimensions, is hinged or pivotally mounted in any proper manner, the upper end of the section 1 of my improved shutter, having a proper number of circular raised portions 11 provided with suitable openings and having upon their inner surface an adjustable ventilator 12 adapted to open and close the said openings, and being preferably mounted on a pivot 19. The said section 1 is also provided upon both edges with the inwardly projecting flanges 34 adapted to abut against the vertical strips 28 on the said frame when the said shutter is closed. The said metallic shutter is preferably constructed in two sections, as shown in Fig. 1, the lower and shorter section 2 being pivotally mounted on the rod 26 which is rigidly secured in the sides of the frame 3. The said section 2 also has upon both edges the inwardly projecting flanges 35, a pair of rigid lugs 27 having the pivoted latches 24 adapted to automatically engage the rigid metallic lugs 23 secured to the vertical strips 28, and is also provided with the chains 25 one upon each end thereof for closing the same. The said section 2 instead of being pivotally mounted, as described, may be arranged with a sliding connection with section 1 as seen in Fig. 2, by means of proper inwardly projecting flanges; or the said sections may have a hinged connection if desired; or if desired the said shutter may be made in but one piece, though I prefer the construction as shown. At suitable points upon the outer face of the said section 1, are rigidly fixed the perforated metallic lugs 9 in which is loosely mounted the transverse rod 8 to the ends of which are rigidly fixed the metallic buckles 6 of well known construction, having an adjustable nut 6' on the threaded rods 7 which are hinged to the forward end of the operating rods 5. The

said rods 5 are loosely mounted in proper perforations one on each side of the frame 3, and in a proper groove or recess 29 in the sides 3 of the said frame. The inner ends of the rods 5 are provided with a knob or handle 20 which may if desired have an alarm bell 22 properly attached thereto. The metallic lug 30 is centrally perforated to receive the rod 5, is rigidly fixed on the inner face of the casing 4, and is provided with a pivotally mounted catch 21 adapted to automatically engage a proper notch or recess in the said knob 20, when the rods 5 are fully extended, as seen in Fig. 1. At a proper point near the lower end of section 1 of the said shutter, is rigidly fixed the cross-rod 10 on the ends of which the awning rods are pivoted, at or near their forward end, the inner end of the rods 15 having a longitudinal slot 16.

Upon the outer face of the frame 3 is rigidly fixed a pair of metallic lugs having perforated ears 13 in which are pivotally mounted the short awning rods 14 having a proper pivot 18 which passes through the said slot 16 and has a washer on its free end, and a pivot 17 adapted to normally rest upon the upper edge of the rods 15, and thereby secure the said rods 14 and 15 in proper relation. The said rods 14 and 15 are provided with a proper number of perforations 32 in which the lower portion of the awning curtains 31 may be tied or secured. The outer edges of the said curtains 31 are preferably secured to a series of staples 33 upon the edges of the shutter section 1.

The operation of my improvement thus described is, briefly stated, as follows: When my improvement is in position for use as an awning, as seen in Fig. 1, the shutter section 1 will be firmly supported by the rods 5, and 7, and the connecting adjusting buckle 6, by means of which the said shutter may be arranged at any desired angle, the rods 5 being rigidly held in their extended position by the latches 21. When it is desired to close the said shutter, the operator from the interior of the building or window, elevates the lower window sash and closes the shutter section 2 by means of the chains 25, when the latches 24 will automatically by their own weight engage the lug 23 and thereby secure the said section. The operator next disengages the latches 21 from their locked engagement with the handles 20, when the said rods 5 are drawn inward until the shutter section 1 is closed, the pivotally connected awning rods 14 and 15 being adapted by their arrangement and connection to fold upward during the said operation; the buckles 6 will then rest in the recess 29 out of the way of the window weights, and the rods 5 will by their own weight assume a vertical position, as seen in dotted outline in Fig. 1. When the said shutter is thus closed the lower end of section 1 overlaps and further secures the top of section 2, and the

said section 1 is secured by the weight and arrangement of the said rods 5, though they may be further secured if desired, by proper elbow-hooks or in other proper manner. The shutter will then be securely fastened.

It is obvious that when the alarm bells 22 are attached when used for dwellings, any tampering with the said shutter by an intruder in attempting to open the same, will promptly ring the said alarm bells and rouse the inmates. It is also obvious that the said alarm bells are not an essential feature of my invention, and would be useless when my improvement is used upon buildings temporarily unoccupied. It is also obvious that when my invention is in position for use as an awning, the opening from the interior to the recess 29 is closed by the abutting knob 20, and when the shutter is closed the said opening through the frame 3 is closed by the elliptical lug 8 on the outer end of the buckles 6. If desired my improved shutter can be made of corrugated sheet metal.

Having thus described my invention and the manner in which the same is employed, what I claim as my invention, and desire to secure by Letters Patent, is—

1. A combined awning and fire-proof shutter constructed in two sections pivotally mounted on the window frame as shown, the upper section having the operating rods 5 which pass through the said frame and are secured to the said shutter by the rod 7 and the buckles 6, having their outer ends rigidly fixed on the pivoted cross rod 8, the said rods having upon their inner ends suitable knobs 20 adapted for engagement with proper locking latches 21, and having the perforated pivotally connected and upwardly folding awning rods 14 and 15 for the side curtains 31, and the lower pivoted section 2 having operating chains 25 as shown and the locking latches 24, all substantially as described.

2. A combined awning and fire-proof shutter constructed in two sections, the upper section being pivotally mounted on the window frame, as shown, having the operating rods 5 passing through the said frame 3 and being secured to the shutter section 1 by the rods 7 and the buckles 6 which have their outer ends rigidly fixed on the pivoted cross-rod 8, the said rods having upon their inner ends the knobs 20, adapted for engagement with proper locking latches 21, and the lower slidable section 2 adapted to be lowered when the shutter is closed, all substantially as described.

3. In combination with a window frame, a combined awning and fire proof shutter, in two sections, hinged or pivoted on the window frame, the upper section 1 having the operating rods 5 which pass through the said frame and are secured to the said shutter section by the rods 7 and the adjusting buckles 6, having their outer ends rigidly fixed on the pivoted cross rod 8, the said rods 5 having upon their

inner ends the knobs 20 adapted for a locking
engagement with proper locking latches 21,
and having the upwardly folding awning rods
14 and 15 for the side curtains 31, and the
5 lower pivoted section 2 having operating
chains 25 and locking latches 24, for the pur-
pose described, all substantially as described.

Signed by me, at Avilla, Noble county, State
of Indiana, this 13th day of August, A. D. 1894.

WILLIAM LASH.

Witnesses:

FRANK M. STOECKLEY,
ANDREW LASH.