D. HIGGINS.

OUTSIDE ROLLING WINDOW SHUTTER.

APPLICATION FILED AUG. 18, 1913.

1,107,069. Patented Aug. 11, 1914.

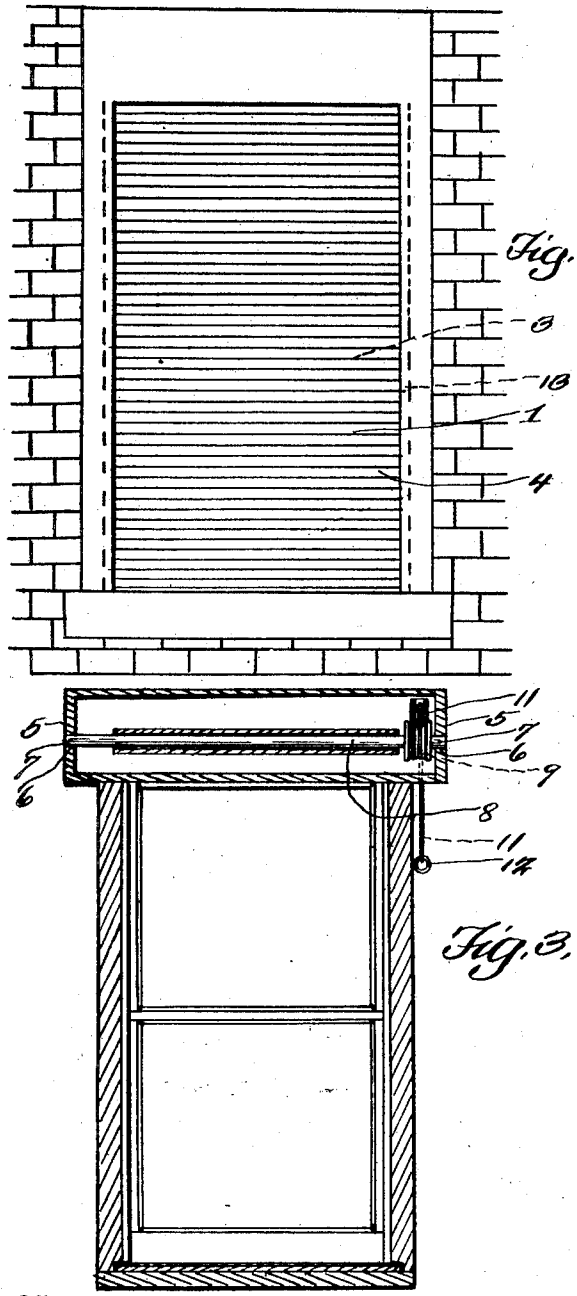


Fig. 1.

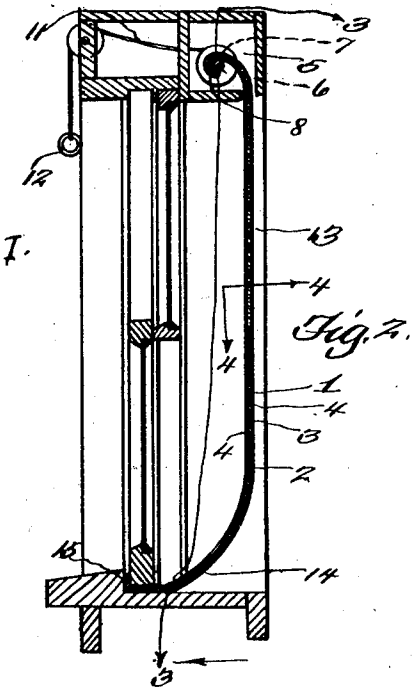


Fig. 2.

Fig. 3.

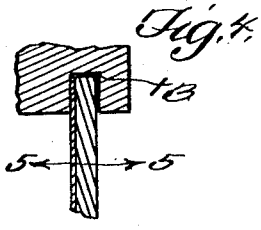


Fig. 4.

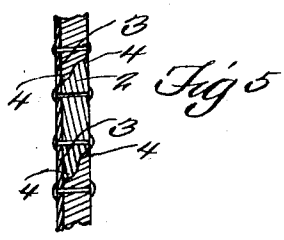


Fig. 5

Witnesses

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UNITED STATES PATENT OFFICE.

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OUTSIDE ROLLING WINDOW-SHUTTER.

1,107,069. Specification of Letters Patent. Patented Aug. 11, 1914.

Application filed August 18, 1913. Serial No. 785,416.

To all whom it may concern:

Be it known that I, DANIEL HIGGINS, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented a new and useful Outside Rolling Window-Shutter; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful exterior rolling window shutter.

An object of the invention is to provide a shutter of this nature, that can be raised or lowered from the interior, without raising the window, and provided with means at its lower portion to engage the lower edge of the lower sash, to prevent the shutter from being raised from the exterior, and also preventing the same from being raised from the interior, without first having unlocked the sashes.

One of the features of the invention is to construct the shutter of a series of slats or bars flexibly connected in sequence, and so arranged as to prevent a burglar from inserting an instrument between the slats or bars in an endeavor to sever the connections between the slats.

In practical fields it may be found necessary to subject the minor details of construction to alterations, to which the patentee is entitled, provided the alterations fall within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a view from the exterior, showing the shutter lowered. Fig. 2 is a sectional view on line 2—2 of Fig. 1, showing how the shutter is locked in engagement with the lower sash. Fig. 3 is a sectional view on line 3—3 of Fig. 2. Fig. 4 is a transverse sectional view. Fig. 5 is a detail view.

Referring more particularly to the drawings, 1 designates a shutter, which is constructed of a plurality of slats or bars 2 made of any suitable material and joined together in sequence as shown at 3. These slats or bars are provided with overlapping portions 4, to prevent an instrument from being inserted between the bars, in order to prevent the connections 3 from being severed or tampered with. At the upper portion of the frame of the window at the side, brackets 5 are provided having suitable bearings 6 for the reception of the elongated spindles 7 of the roller 8, about which the shutter winds. Wound about and attached at 9 to one of said spindles is a cord or rope or chain 11, the free end of which is provided with a ring 12. The shutter descends or closes or falls by its own weight or gravitation. However, to raise the shutter it is necessary to pull upon the cord or rope 11, and after raised the cord may be fastened in any suitable manner (not shown), so as to hold the shutter raised. At each side of the window frame a groove 13 is constructed, to guide the opposite edges of the shutter. The lower portions of these grooves 13, as shown at 14 curve inwardly toward the lower window sash, and in such a manner that the lower slat of the shutter will assume a position under the window sash, there being a flange 15 forming an integral part of the lower slat of the shutter, to engage the sash, so as to prevent the shutter from being raised from the exterior, as well as preventing the same from being raised from the interior, until after having unlocked the lower sash.

From the foregoing there has been devised a simple and efficient exterior shutter adapted to be manipulated from the interior, and one which has been found desirable and practical.

The invention having been set forth, what is claimed as new and useful is:

In combination with a window frame including upper and lower sashes, of an exterior sliding shutter including a roller therefor, said frame having guides for the shutter curved in toward the lower sash and terminating thereunder, the lower portion of said shutter having a laterally extending flange and arranged vertically between the lower portion of the sash and the frame when the shutter is down to lock the same.

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

DANIEL HIGGINS.

Witnesses:
RICHARD W. JONES,
WALLACE R. JOHNSON.