

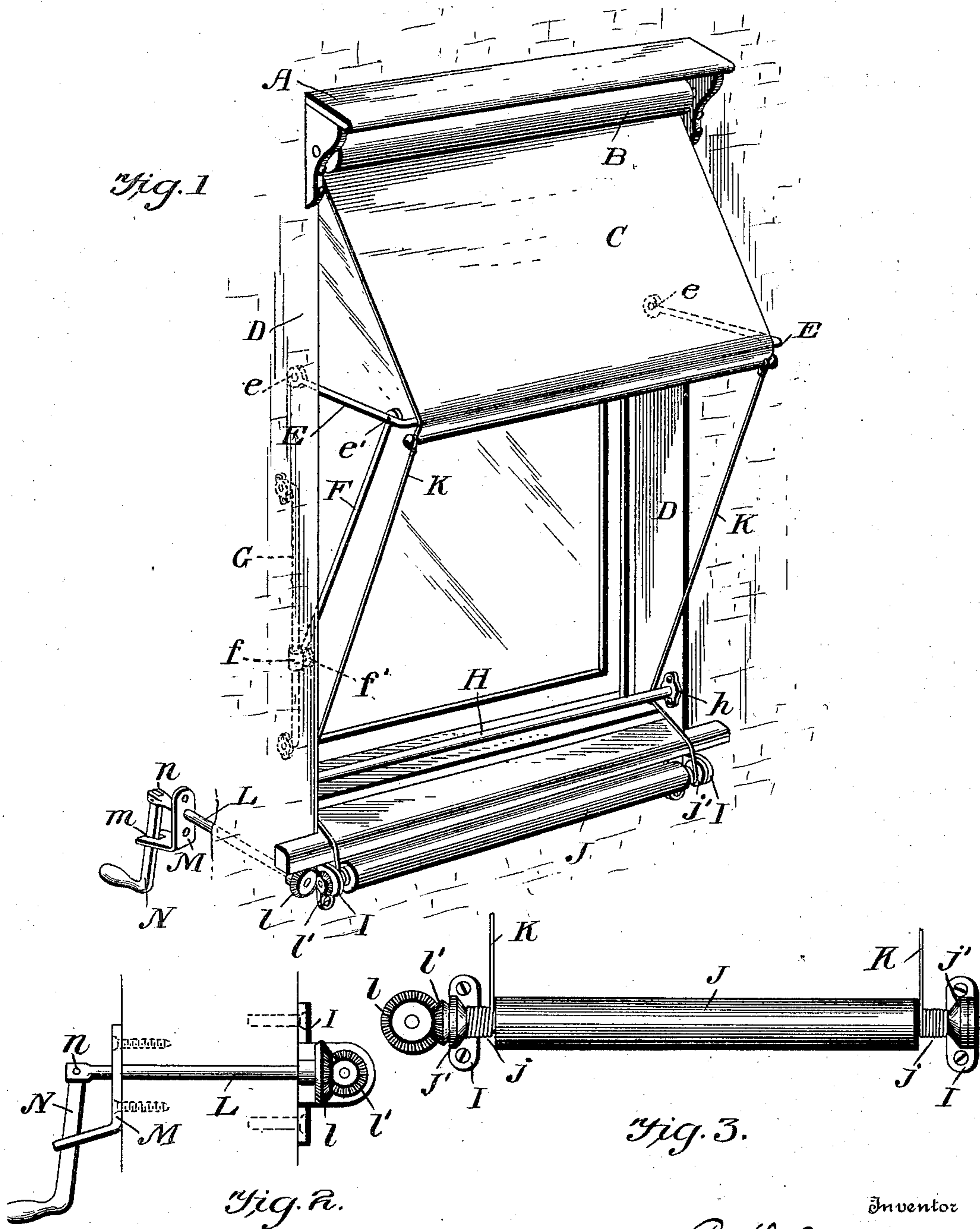
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Patented Mar. 18, 1902.

R. O. BOLLES.
CONVERTIBLE WINDOW SHADE AND AWNING.

(Application filed Oct. 11, 1901.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

ROBERT O. BOLLES, OF BLOOMINGTON, ILLINOIS.

CONVERTIBLE WINDOW SHADE AND AWNING.

SPECIFICATION forming part of Letters Patent No. 695,856, dated March 18, 1902

Application filed October 11, 1901. Serial No. 78,360. (No model.)

To all whom it may concern:

Be it known that I, ROBERT O. BOLLES, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented certain new and useful Improvements in Convertible Window Shades and Awnings; 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.

My invention relates to improvements in window-shades, and has for its special feature to provide an improved attachment whereby the ordinary sliding shade may be converted into an awning at the will of the occupant of the room.

Another feature of my invention is that by applying the shade to the outside of the window it serves to shield the panes of glass from winter frosts, and at the same time, being made of material sufficiently translucent, to admit the rays of the light outside without exposing the interior of the room, and thus serves as a substitute for shutters to the window.

Another feature of my invention is that when the frame is in the position to serve as an awning-frame the shade or curtain can be pulled down to the sill of the window, thus shading the room and affording a barrier to outside observation and at the same time allowing an ample sufficiency of light and air from the side openings of the curtain.

To more fully describe my invention reference is had to the accompanying drawings, in which like letters of reference refer to corresponding parts in the several views.

Figure 1 represents a perspective view of a window provided with my improvements. Fig. 2 is a side elevation of the operating mechanism for the shade, and Fig. 3 is a front elevation of the roller or operating-drum and its mountings.

To the upper outside of the window-frame I suitably journal beneath a cover A a spring-operated roller B of the ordinary construction, and to this roller B is secured the shade C, of any suitable waterproof translucent flexible material capable of withstanding the elements; or instead of this arrangement a

suitable curtain composed of folding slats may be used, if so desired.

To the sides D of the window-frame, as at *e*, I pivotally secure the frame E, of suitable metal, and to this frame E is pivotally secured at *e'* the rod F, provided with the socket *f*, which is adjustably mounted on the rod G, secured to the side frame E of the window-frame by means of the set-screw *f'*, as shown in dotted lines in Fig. 1. Any other suitable means of adjustably securing the rod F to the window-frame may be used, if desired.

Near the lower side of the window-frame is mounted a roller H, suitably journaled in bearings *h*, secured to the side frames D of the window, and below the window-sill, journaled in suitable brackets I, is mounted the drum or roller J, having grooved cut-away portions *j* for receiving the operating wires or cords K, secured at one of their ends to the drum J, and passing beneath the roller H are secured at their other ends to the shade C on the outside of the frame E. The roller or drum J is provided at its ends with the cylindrical bosses *j'*, the outer faces of which engage the brackets I for holding the roller in position, while the inner surfaces are conical-shaped and serve to guide the cord or wire K in the grooved cut-away portion of the roller J. One end of the roller or drum is provided with a bevel gear-wheel *l'*, adapted to mesh with the bevel gear-wheel *l* on the shaft L. This shaft L is disposed at right angles to the roller J and is adapted to pass through the wall to the interior of the room. The shaft L is suitably journaled in bearings, the inner one, M, consisting of an angle-plate secured to the inside wall of the room and provided with the slot *m*, which is adapted to receive the crank N for locking the operating mechanism, when desired. It is obvious; however, that any other suitable locking mechanism may be used. The crank or handle N is pivotally secured to the shaft L, as at *n*, in any suitable manner.

The operation of the device is as follows: When the shade is to be used as the ordinary sliding shade, the frame E and rod F are moved to occupy positions against the sides of the window-frame out of the way of the shade, when the shade can be drawn down or let up at will by means of the crank and

connections, and when the shade is to be used as an awning the frame is turned about its pivot and adjusted in the desired position, and the shade being operated will reeve over
5 the frame and serve as an awning.

Although I have described my improvements in connection with a window, it is obvious that the device may be used in many other connections. For instance, my inven-
10 tion might be used to great advantage on porches or verandas.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

15 1. The combination with the shade or curtain, of means adapted to engage said curtain for holding the same in an angular position, a suitably-journaled guide-roller, a drum or roller in proximity to said guide-roller, a flexi-
20 ble means engaging said guide-roller secured to said curtain at one end, and to said drum at its other end, and means for operating said drum.

2. The combination with the shade or cur-

tain, of an adjustable frame adapted to en- 25
gage said curtain, a drum and means connect-
ing said drum and curtain for operating said
curtain, a crank provided with a pivoted han-
dle engaging said drum, and a bearing for
said crank, comprising a slotted angle-plate, 30
for locking the pivoted handle and operating
parts.

3. The combination with the shade or cur-
tain, of a pivoted frame adapted to engage
said curtain, an adjustable rod supporting 35
said frame, a drum, and flexible means con-
necting said drum with the curtain, a guid-
ing-roller engaging said flexible means, a
crank in proximity to said drum, and bevel-
gearing connecting said crank and drum for 40
operating said drum.

In testimony whereof I affix my signature
in presence of two witnesses.

ROBERT O. BOLLES.

Witnesses:

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