

(No Model.)

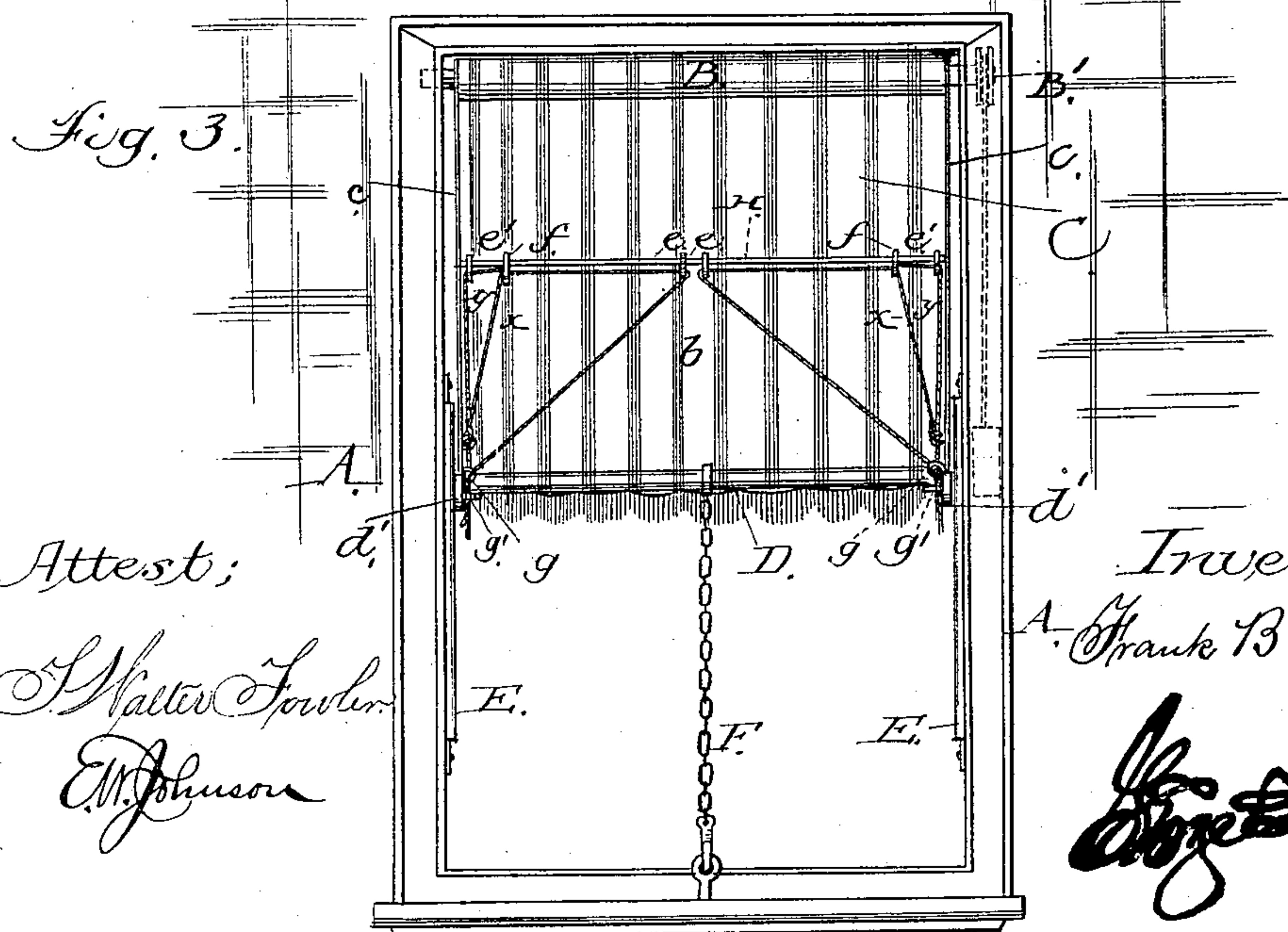
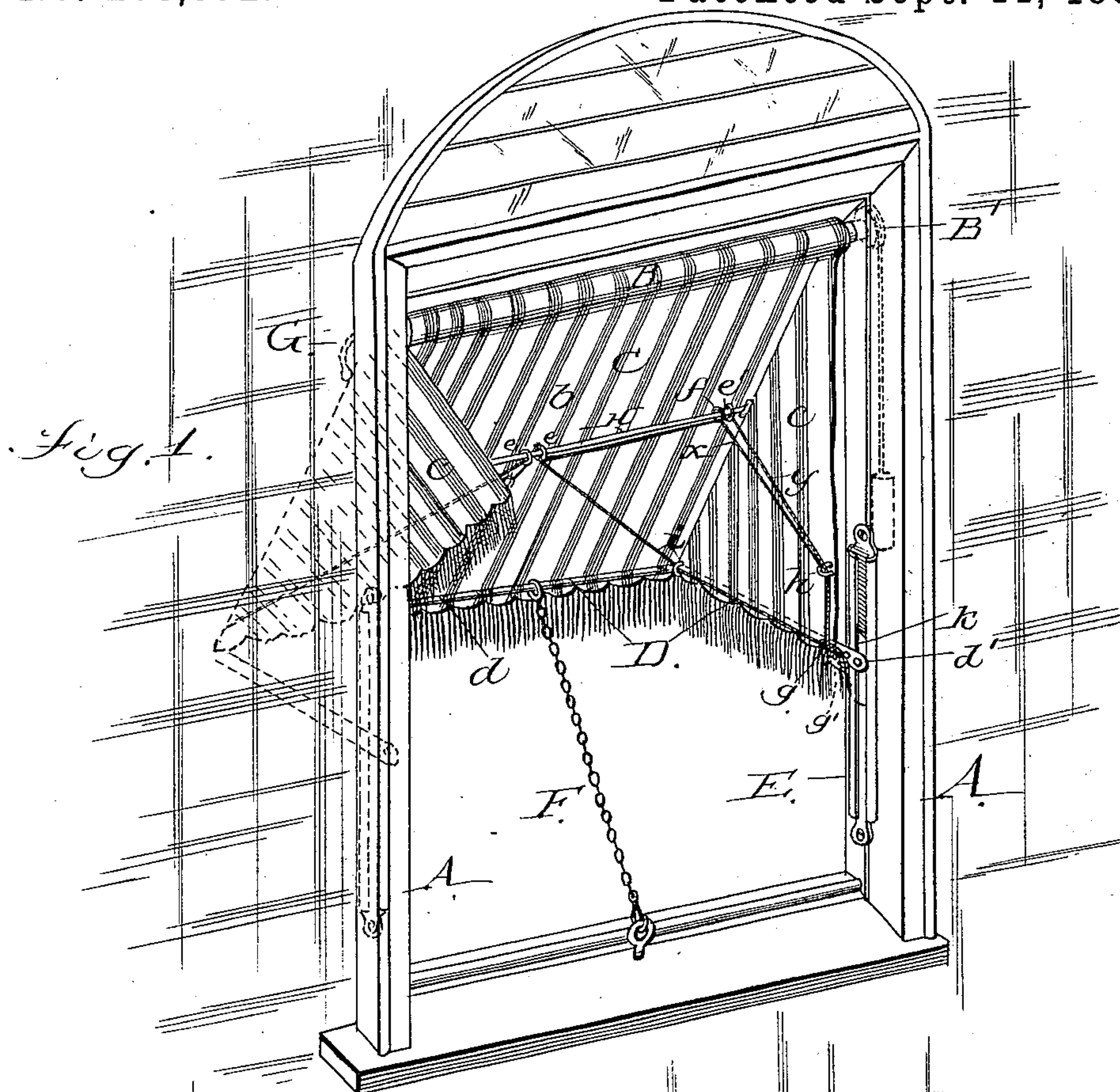
2 Sheets—Sheet 1.

F. B. MALLORY.

AWNING.

No. 284,872.

Patented Sept. 11, 1883.



Attest;

S. Walter Fowler.

E. M. Johnson

*Inventor;*

A. Frank B Mallory

*Robert Brown*

atty.

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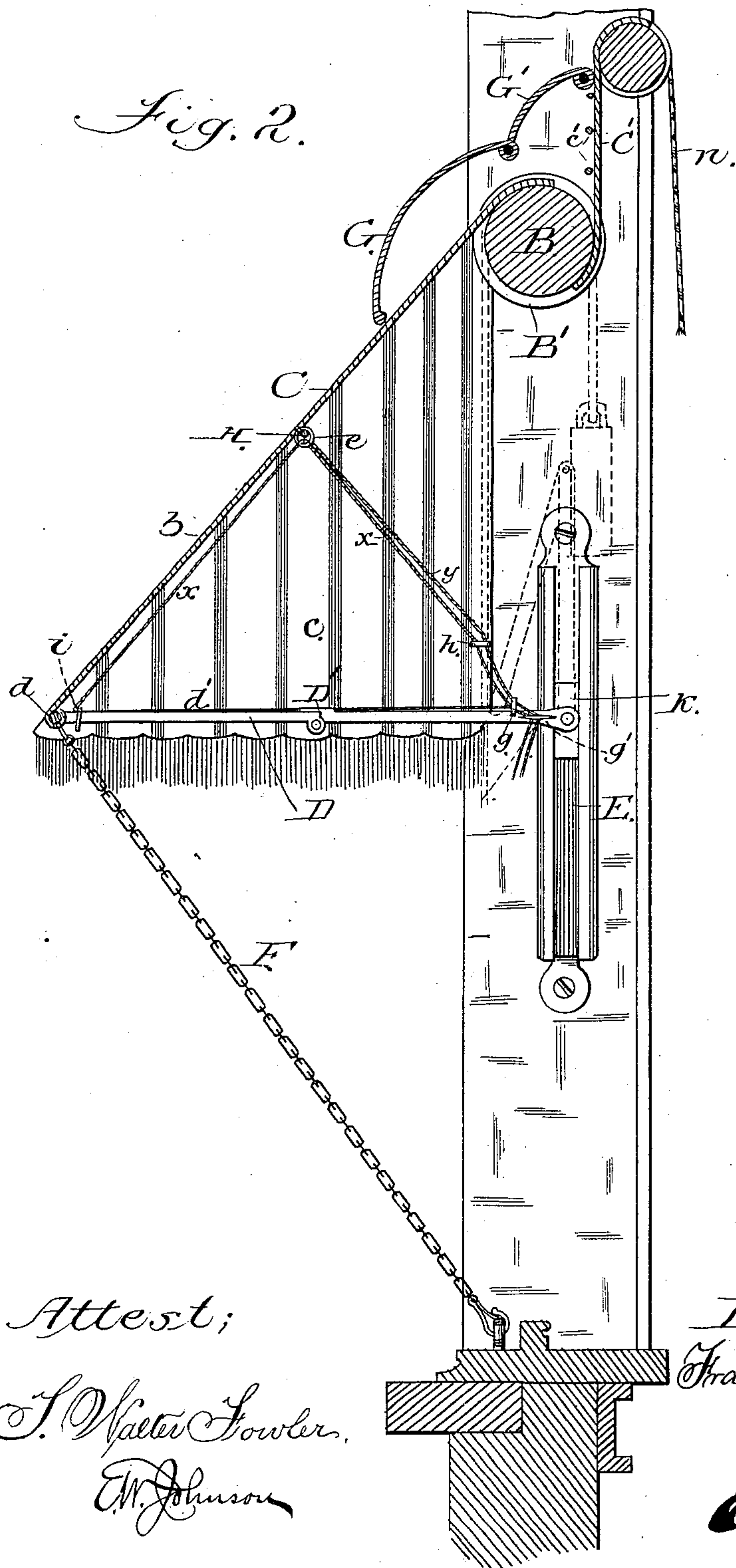
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Fig. 2.



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# UNITED STATES PATENT OFFICE.

FRANK B. MALLORY, OF NEW YORK, N. Y.

## AWNING.

SPECIFICATION forming part of Letters Patent No. 284,872, dated September 11, 1883.

Application filed July 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK B. MALLORY, a citizen of the United States, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in awnings for windows, its object being to provide an awning which may be readily raised and lowered, and when raised will be protected from the weather; and it consists in providing an awning with means whereby the flaps or side pieces of the same may be folded from the interior of a building; also, in providing the awning with a jointed extension-bar, by means of which, when said bar is bent or folded, the awning may be used as a curtain.

My invention also consists in the construction and combination of the parts, as will be hereinafter more fully set forth, and specially pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view, showing one of the side wings folded against the central piece. Fig. 2 is a sectional view, showing the awning down in full lines and used as a curtain in dotted lines; and Fig. 3 is a rear view.

A represents the window frame or casing, between the sides of which is pivoted, in suitable journals, the roll B, which is provided at one or both ends with a spool, B', over which passes a cord, to the end of which is attached a weight, the side or sides of the window-frame being provided with a vertical passage-way for the reception of this cord and weight.

C represents the awning, which is attached at its upper part to the roll B. This awning is constructed in the usual manner, and is provided with a central part, *b*, and side wings, *c c*.

D represents the awning-frame or extension-bar, the front portion, *d*, of which is securely attached to the central portion, *b*, of the awning. At a suitable point the side arms, *d'*, of

this bar are provided with hinged joints D', which are provided with projections, which abut against each other. The inner ends of the side bars, *d'*, are pivoted to a block, *k*, which slides within suitable guides, E, attached vertically to the sides of the window-frame, and at a suitable point about the central portion of the transverse bar, which is attached to the awning, is secured a suitable chain or cord, F, which is provided at its end with a snap-hook, which is adapted to be secured to an eye located at or near the sill of the window. This cord is for the purpose of holding the awning extended, and will prevent the weight from rolling the awning up when the same is attached to the eye.

In an awning constructed as hereinbefore described the same may be used either as an awning or as a window-curtain, as when the side arms are bent upon themselves the transverse bar *d* will lie within the window-frame, and the central piece, *b*, of the awning may be raised and lowered vertically, the arms sliding within the guides E.

It will be seen that by providing the awning with a roll which is operated by a weighted cord I can use a roll of very small dimensions, which would not be the case if the roll inclosed a spring, and I am also enabled to locate the awning, when rolled, upon a transverse bar, B, within the window-frame, so that it will be thoroughly protected from the weather.

Above the awning-roll B, and within the side and outer edge of the window-casing, I pivot a suitable cover, G, the lower edge of which is weighted. This cover G rests upon the edge of the awning when the same is extended, and when said awning is rolled up, the cover, owing to its lower edge being weighted, will partially encircle and cover the same.

Heretofore awnings have been provided with side wings, which were adapted to fold upon central flaps before the same could be rolled up; but to fold said flaps upon the central piece it was necessary either to reach out of the window or let the awning fall entirely down, so that the extension-bar would rest upon or over the window-sill. This form of awning is objectionable, owing to the large amount of material employed and the difficulty of manufacturing the same. By my im-



proved construction I overcome these objections and provide a means whereby the side flaps may be readily folded upon the center-pieces independently of each other, so that  
 5 when it is desirable to have one of the sides raised it may be done without displacing the opposite side. This end is accomplished by providing the awning, at a suitable point between its top and bottom with a transverse  
 10 rod, which is attached to the front portion, *b*, of the awning at its ends and at a central point. This transverse rod in the accompanying drawings is indicated by the letter *H*, and said rod is provided at its center with eyes *e e* and at  
 15 its ends with eyes *e' e'*. This rod *H* is also provided with sliding wings *f f*, which are located upon the rod between its central and end portion. The ends of the hinged arms *d'* adjacent to the window-frame are also pro-  
 20 vided with eyes or rings *g* and with a suitable cleat, *g'*. Each of the side wings is provided with two cords for operating the same, the cord being for the purpose of opening the flap, while the other one is intended to close the  
 25 same against the central piece, *b*. The cord *y*, which is for the purpose of opening the flaps, is first passed through one of the rings or guides *g*, attached to the end of the bar *d'*. It then passes through a ring or guide attached  
 30 to the edge of the awning, (indicated by the letter *h*,) after which it passes through the eye *e'* and is attached to the sliding ring *f*.

When the awning is closed, by drawing on the string *y* the side of the awning is brought  
 35 down so as to lie parallel with the side arms of the extension-bar *d'*, the end of this cord drawing the sliding ring *f* toward the eye *e'*.

The cord *x*, which is for the purpose of closing and holding the side wings, *c c*, against  
 40 the central piece, *b*, first passes through the double ring *g*, and from thence to a ring or eye which is attached to the extension-bar at its joint, as indicated by the letter *i*. It then passes diagonally upwardly to the central eye,  
 45 *e*, on the cross-bar *H*, hereinbefore described, and is passed through the sliding ring *f*, and from thence is attached to the lower vertical edge of the side wings of the awning, or to the ring attached at this point of the same.  
 50 By pulling upon this string or cord *x*, the edges of the side wings will be drawn so as to lie flat against the central portion of the awning, and the same may be readily rolled up. The cleats  
 55 *g'*, which are attached to the pivoted side bars, *d'*, afford a means for securing the ends of the cords *x* and *y*, so as to hold the side wings of the awning in any desired position.

When it is desired to use my improved awning as a curtain, the side wings, *c c*, are first  
 60 placed against the center piece, *b*, and the extension-arms are bent at the joint *D'* upwardly, so as to lie almost vertically against the side frame of the window. The awning may then be used as an ordinary window-curtain, and  
 65 the same will be raised by the weight attached to the cord, which passes over the spool on the

roll *B*, and may be held at any suitable height, as desired, by means of the cord or chain *F*, which may be provided with suitable catches or means for securing the same to the eye in  
 70 the window-sill at different heights.

In some cases windows are provided with rounded or curved tops, and it is desirable that this curved portion of the window-frame  
 75 should be closed by a suitable screen or awning, and to accomplish this end I provide the roll *B* with a supplemental piece, *C'*, the side and upper portion of which correspond in  
 80 shape with the window-casing. To the upper part of this supplemental piece is attached a suitable cord, *n*, which passes over a pulley attached to the upper part of the window-casing. This cord, after passing over the pulley,  
 85 extends downwardly and is detachably secured to the window-frame.

It will be seen that when the awning proper is rolled over the shaft *B* both portions *C C'* will be wound upon the same. In order to protect this supplemental awning *C'*, the cover  
 90 *G* is provided with a supplemental portion, *G'*, which is pivoted at about the same point as the upper of this main cover. This cover *G'*, when the awning *C'* is raised, will rest upon the same, and when it is lowered will fall over and form a casing above the roll.  
 95 The supplemental piece *C'* is provided with transverse bars *e'*, which serve to hold the same extended.

It will be seen from the foregoing description that the operating parts of this awning  
 100 are all within easy reach, and no great power is necessary to raise and lower the same, and that when said awning is raised it is protected from the weather.

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

1. In combination with the awning *C*, the roll *B*, pivoted within a window-casing, and provided with a cord and weight for raising  
 110 the same, and pivoted extension-bar *D*, provided at its outer edge with a retaining means, *F*, substantially as shown, and for the purpose set forth.

2. In combination with an awning, the roll  
 115 *B*, secured within the sides of a window-casing, the cover *G*, pivoted above the roll and within the window-casing, said cover having an outwardly curved portion and a weighted lower end, substantially as shown.  
 120

3. The improved awning and curtain provided with a central portion, *b*, and side wings, *c c*, attached to a roll journaled between a window-casing, and an extension-bar attached at  
 125 its outer end to the central portion of the awning, and having hinged side arms, said side arms being pivoted to a sliding block attached to the window-casing, the parts being organized substantially as shown, and for the purpose set forth.  
 130

4. In combination with an awning provided with a central part, *b*, and side wings, *c c*, the



cord *y*, which passes through the rings *g h e'*, and attached to the sliding ring *f* upon the rod *H*, substantially as shown, and for the purpose set forth.

5 5. In combination with an awning provided with a central portion and side wings, the cord *x* for closing the same, which passes through a guide attached at the inner end of the extension-bar and one attached to the outer  
10 end of the same, and from thence upwardly to a central ring, *e*, and through a sliding ring, *f*, located upon a transverse bar, *H*, attached to the awning, its end being secured to the vertical edge of the side wings, substantially  
15 as shown, and for the purpose set forth.

6. In combination with an awning provided with a central portion and side wings, the extension-bar *D*, provided at its inner end with guide-rings, and a cleat, and means for  
20 opening and closing the said wings, substantially as described.

7. The awning hereinbefore described, provided with a transverse bar, *H*, attached to the central portion, *b*, and provided with central guides, *e e*, end guides, *e' e'*, and sliding  
25 rings *f f*, in combination with the extension-bar *D*, provided with rings at its outer corners and guide-rings *g g* at its inner end, and cleats *g'*, the side wings of the awning being  
30 provided with guides *h h* and operating-cords *x* and *y*, substantially as shown, and for the purpose set forth.

8. In combination with the awning having side wings, *c c*, and means for opening and

folding the same against the central portion of 35 the awning and holding the same in position, the extension-bar *D*, with side arms, *d'*, provided with hinged joints *D'*, said side bars being pivoted to a sliding block, *k*, secured within vertical guides attached to the sides of the  
40 window-frame, and securing means *F*, the awning being attached to a self-operating roll located between the window-casing, substantially as shown, and for the purpose set forth.

9. In combination with an awning attached 45 to the roll, the supplemental piece *C'*, adapted to be raised upward from said roll, substantially as shown, and for the purpose set forth.

10. The supplemental piece or screen *C'*, attached to the roll *B*, and provided with a cord, 50 *n*, which passes over a pulley secured to the upper part of the window-casing, substantially as described, and for the purpose set forth.

11. The supplemental piece or screen *C'*, attached to an awning-roll, and provided with 55 means for raising the same, said screen having transverse bars *c*, for the purpose set forth.

12. In combination with the awning *C*, the roll *B*, provided with the screens *C'* and means for raising the same, the cover *G'*, adapted to 60 fall over the rear portion of the awning-roll, for the purpose set forth.

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

FRANK B. MALLORY.

Witnesses:

E. W. JOHNSON,  
JOHN E. BEALL.