

No. 607,108.

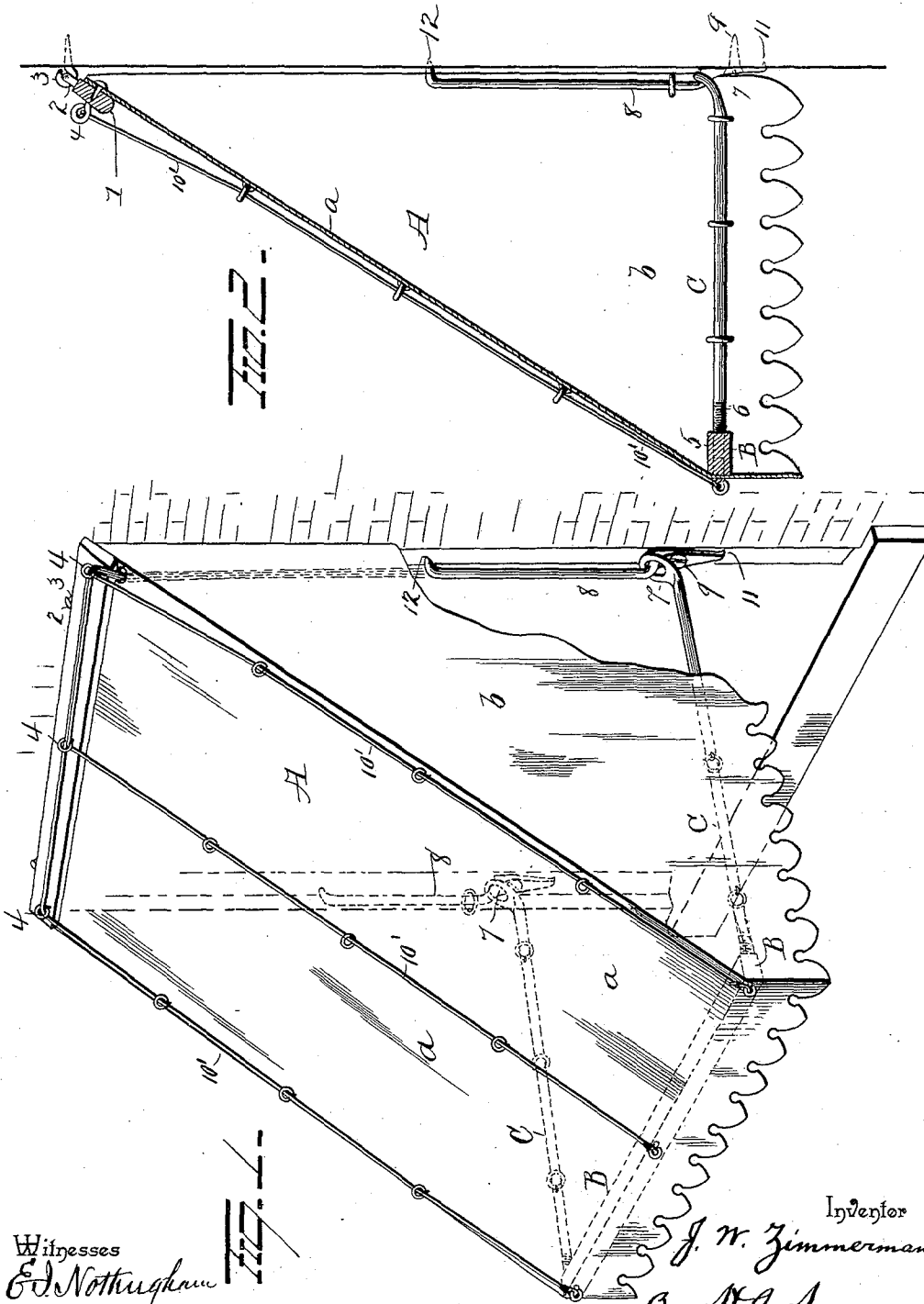
Patented July 12, 1898.

J. W. ZIMMERMAN.
AWNING FRAME.

(Application filed July 2, 1897.)

(No Model.)

2 Sheets—Sheet 1.



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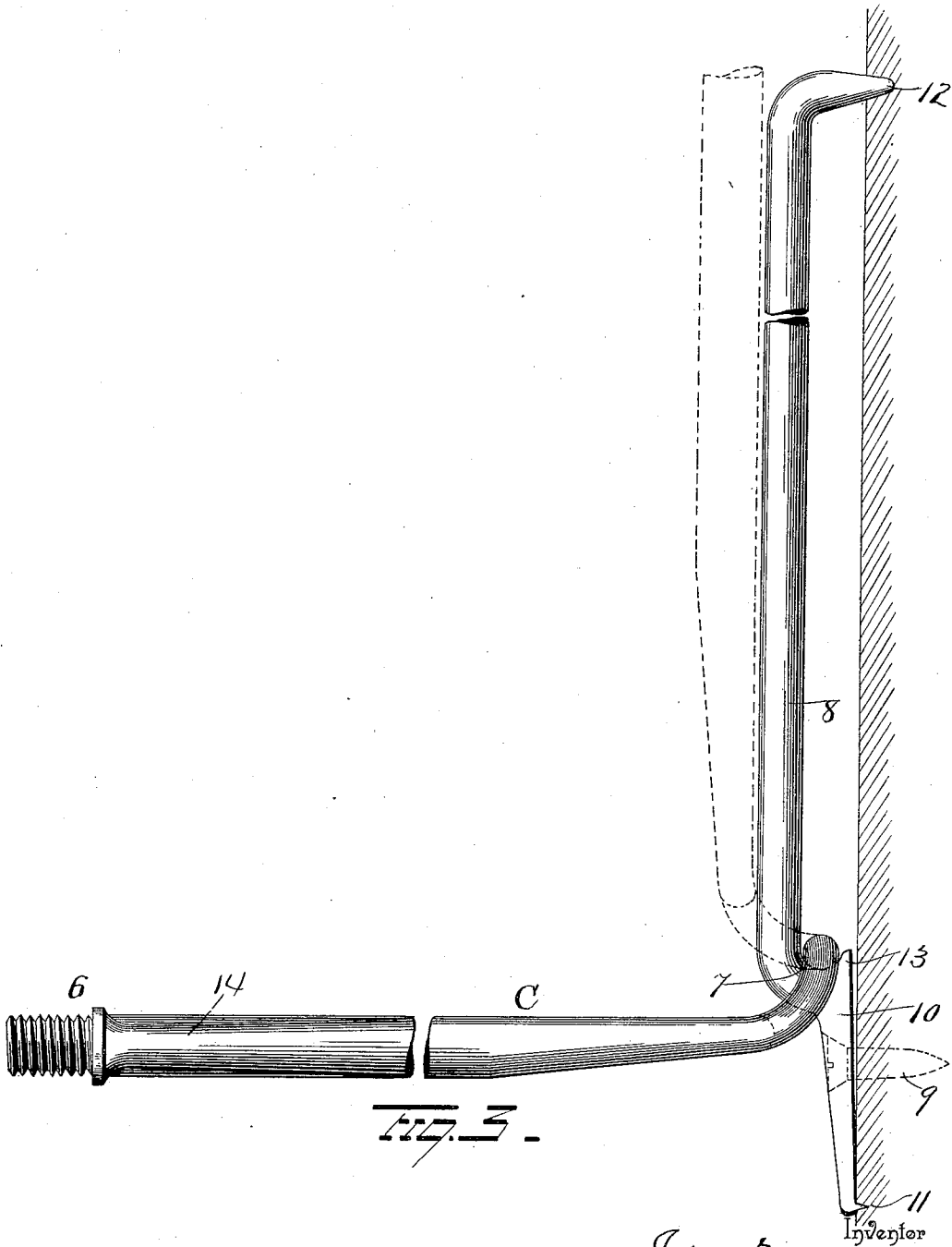
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UNITED STATES PATENT OFFICE.

JOHN W. ZIMMERMAN, OF WILMINGTON, NORTH CAROLINA.

AWNING-FRAME.

SPECIFICATION forming part of Letters Patent No. 607,108, dated July 12, 1898.

Application filed July 2, 1897. Serial No. 643,306. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. ZIMMERMAN, of Wilmington, in the county of New Hanover and State of North Carolina, have invented certain new and useful Improvements in Awning-Frames; 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 an improvement in awnings; and it consists in a pair of guide-rods adapted to be secured at one end to the window-frame or building and have a detachable spring connection at the other end, in connection with extension rods or arms the inner ends of which are bent approximately a quarter-turn around and provided with an elongated opening adapted to receive and slide upon the guide-rods or to rest and turn upon a seat formed at the lower end thereof.

It still further consists in certain novel features of construction and combinations of parts, which will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in front elevation. Fig. 2 is a vertical sectional view, and Fig. 3 is an enlarged detail view of the extension and guide rod.

A represents the awning. This comprises the front portion *a* and the sides *b b*. A cross-bar 1 is secured to the upper edge of the front portion *a*. This bar extends across the entire width of the window to which the awning is attached, keeping the canvas stretched and taut at this point and constituting a means of ready attachment to or detachment from the window-frame and also a support for the pulleys which carry the elevating and lowering cords. As a means for detachably connecting this cross-bar 1 with the window-frame it is provided with two or more hooks or eyes or equivalent fastening means 2 2, and the window-frame is likewise furnished with hooks or eyes 3 3 or the counterpart of the fastening means on the cross-bar, so that by turning the cross-bar slightly axially it may be engaged with or disengaged from its fastenings.

B is a spreader-bar extending across the lower end of the awning, where the latter is

tacked or otherwise attached to it at several places.

C C are the extension rods or arms, which spread or extend the lower end of the awning. The extension rods or arms have screw-threaded outer ends 6 6, adapted to screw into the spreader-bar. On their inner ends these rods C C are provided with loops 7 7, and these loops are preferably bent upwardly approximately a quarter-turn around, as shown in enlarged detail in Fig. 3, so as to clear the lower end of the guide-rods when swung upwardly, as shown in the dotted lines in Fig. 3.

Guide-rods 8 8 are detachably connected with the sides of the window-frame, where they are held by a single screw 9. The lower ends 10 of these rods 8 8 are bent slightly out of a straight line, and the extreme lower end is furnished with a teat 11, which enters the framework. When the screw is driven in, it tends to draw the end 10 tight against the framework, and the spring action thus created is applied to hold the upper end 12 in the framework with sufficient tension to prevent its removal except when force is purposely used to throw the end 12 out of the framework to admit of the removal of the arm or rod C.

A curved seat 13 is provided at the lower end of the guide-rod 8 for the support and bearing of the rod or arm C when in its normal position and when it is swung up and down.

The cords 10' 10', by which the awning is raised and lowered, are attached at the lower end of the awning to the spreader-bar or otherwise. Thence they pass upwardly over the awning, through guide-loops along the outer edges of the awning and at one or more intermediate points, then over the sheaves or pulleys 4 4 on bar 1, and, finally, downward alongside the window in convenient position to be manipulated and fastened. When thus connected from the outside at intervals, the canvas naturally folds in transverse creases inwardly or downwardly between the rows of loops or eyelets, the weight of the material in the awning being sufficient to cause it to drop in regular folds.

To detach the awning, the cross-bar at the top is unhooked from the window-frame, the

guide-bars are removed from the window-frame, and the extension-rods are unscrewed from the spreader-bar. In this way the awning may not only be taken down, but also the
5 frame may be taken apart and dismantled.

The awning and frame are as readily put up as they are taken down, the operation of course being practically the reverse of that described.

10 It is evident that slight changes might be made in the form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I do not wish to limit myself to
15 the exact construction herein set forth; but,

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

20 1. The combination with the extension rods or arms, of an awning, of spring guide-rods

secured at one end and detachably connected at the other end by means of the spring action of the guide-rods.

2. A guide-rod for awnings constructed at one end only for attachment to the building
25 to which the awning is to be secured, said securing end being in a different plane from and out of parallel with the main portion of the rod whereby when secured in place it causes the opposite end of the guide-rod to engage
30 or approach more closely the side of the building to which the rod is secured.

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

JOHN W. ZIMMERMAN.

Witnesses:

C. S. DRURY,
GEO. F. DOWNING.