

(No Model.)

J. A. GILLIN.
AWNING WORKER.

No. 523,519.

Patented July 24, 1894.

Fig. 1

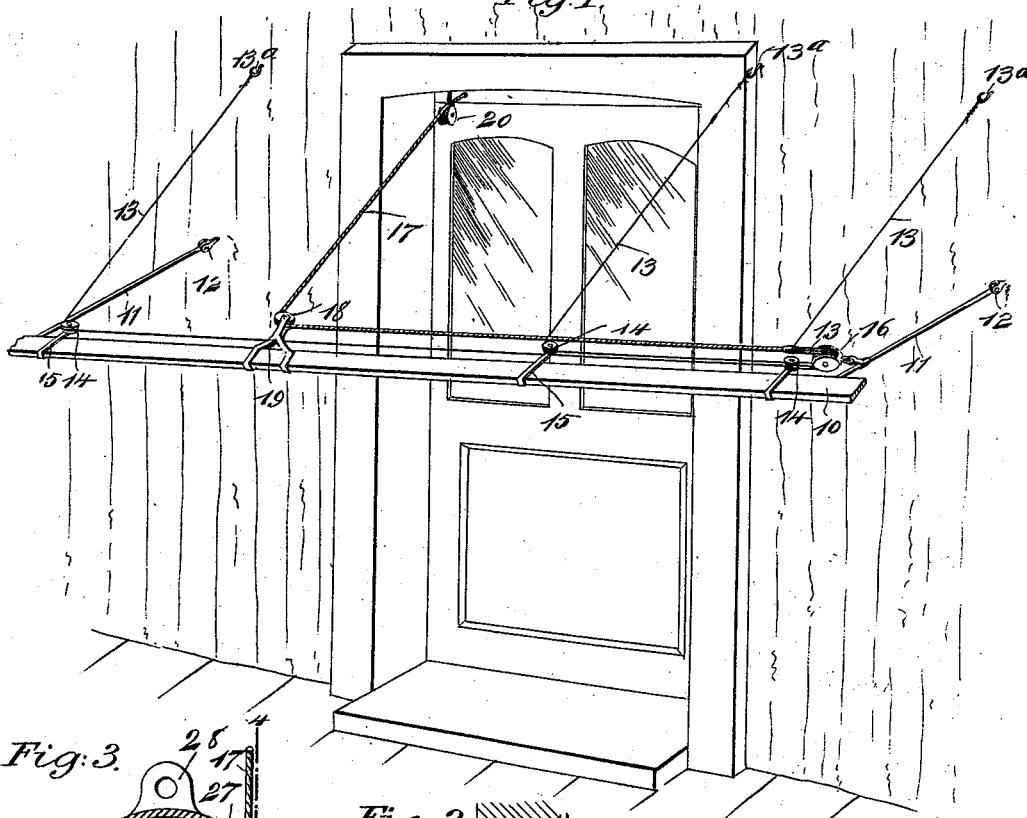


Fig. 3.

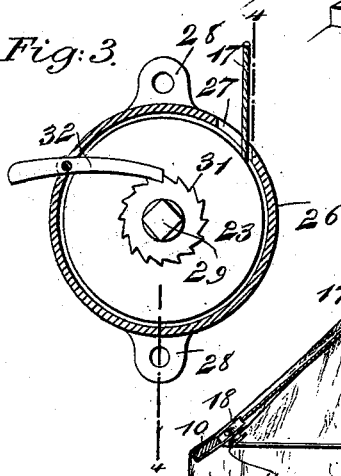


Fig. 2.

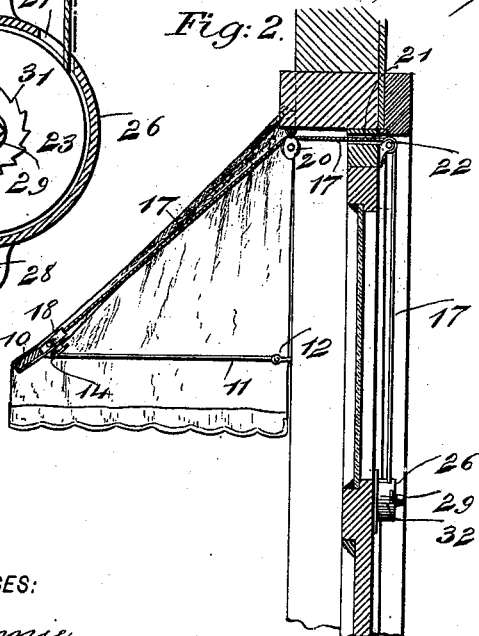
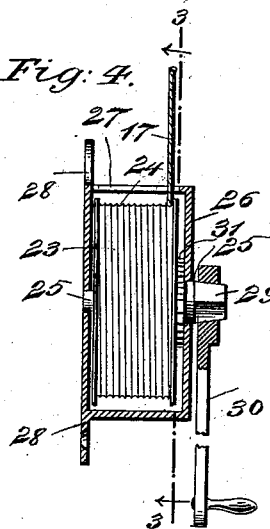


Fig. 4.



WITNESSES:

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JOHN A. GILLIN, OF CHICAGO, ILLINOIS, ASSIGNOR TO HIMSELF, LOUIS DONDERO, AND JOSEPH DONDERO, OF SAME PLACE.

AWNING-WORKER.

SPECIFICATION forming part of Letters Patent No. 523,519, dated July 24, 1894.

Application filed March 2, 1894. Serial No. 502,049. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. GILLIN, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Awning-Worker, of which the following is a full, clear, and exact description.

My invention relates to improvements in awnings and awning workers; and the object of my invention is to produce a cheap and simple awning and working mechanism for the same, the mechanism being such that the awning may be instantly collapsed and thrown up out of the way or as easily lowered into position for use.

A further object of my invention is to construct and arrange the working mechanism in such a way that the awning may be operated from the interior of the building, and also to arrange the working mechanism in such a way that it cannot be readily tampered with by boys or mischievously inclined people.

To these ends my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the awning with the cover removed and with the frame in the position it occupies when the awning is employed to shade a door. Fig. 2 is a detail vertical section of the awning and its working mechanism. Fig. 3 is an enlarged detail section on the line 3—3 of Fig. 4, showing the construction and arrangement of the cable drum which works the awning; and Fig. 4 is a vertical section on the line 4—4 of Fig. 3.

The awning frame is very simple and consists chiefly of the boom 10 and the supporting rods 11, which are connected to the boom and are pivoted to the building, as shown at 12, the supporting clips to which the rods are pivoted being arranged on opposite sides of the door which is to be covered by the awning, although the awning may be applied to a window as well as a door. The cover of the awning is supported on ropes 13, which are secured to hooks 13^a on the building, these being arranged at the desired height, and the

lower ends of the ropes pass over guide pulleys 14 which are journaled on clips 15 fastened to the boom 10, the ends of the ropes, passing over a pulley block 16 which is secured to one of the end rods 11 and being made fast to the operating cable 17.

By reference to Figs. 1 and 2, it will be seen that the planes of rotation of the pulleys 14 are essentially parallel to, or coincident with the plane of the awning.

The object in attaching the ropes to the cable 17 is to have the slack taken out of the rope when the cable 17 is pulled up to lift the awning.

The cable 17 is made to run over a guide pulley 18 which is supported in a clip or hanger 19 on the boom 10, and from this point the cable runs inward over a guide pulley 20 on the door frame and through a hole 21 in the frame, thence over a guide pulley 22 and downward to a winding drum 23, to which it is attached, this drum being provided with an exterior spiral groove 24, so that the cable may be easily wound on it. The drum 23 is journaled, as shown at 25, in a casing 26 which is slotted on its upper side, essentially parallel to the axis of the drum as shown at 27, to receive the cable, and is provided on its back side and at opposite edges with perforated flanges 28 which facilitate its attachment to a support. The shaft of the drum projects through the front of the case 26 and is squared, as shown at 29, so as to receive a crank 30 by which the drum may be turned, and on the front side of the drum is a ratchet wheel 31 which is engaged by a pawl 32 pivoted in and projecting from the case 26 and, by pressing down on the outer end of the pawl, it may be raised from the ratchet wheel so as to permit the unwinding of the drum.

When the awning is to be raised, the crank is applied to the squared end 29 of the drum shaft and the drum is turned, thus winding the cable 17 thereon which pulls upward the boom 10 and swings with it the rods 11, the slack of the ropes 13 being taken up by the cable, and the pawl 32, engaging the ratchet wheel 31, prevents the awning from dropping. To lower the awning, the above movement is simply reversed, the pawl being raised and the cable unwound from the drum.

Except when working the awning the crank 30 is removed, so as to prevent the awning from being tampered with.

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

1. The combination, with the awning, of a series of essentially parallel transverse ropes, each having one of its ends secured adjacent
10 to one of the longitudinal edges of the awning, guide pulleys secured adjacent to the opposite longitudinal edge of the awning and each loosely engaged by one of the said ropes, the planes of rotation of the pulleys being es-
15 sentially parallel to the plane of the awning a cable connected to the free ends of the ropes, and a hoisting mechanism connected to the cable, substantially as described.

2. The combination, with the awning frame
20 having a longitudinal boom at its front end,

of brackets secured to the said boom, pulleys journaled in the brackets, the planes of rotation of the said pulleys being essentially parallel to the plane of the awning frame, a series of essentially parallel transverse ropes whose
25 rear ends are secured to a stationary part of the awning frame support, said ropes passing over the said pulleys and extending all toward the same end of the awning frame, and a pulley block at the said end of the frame, 30 each of the ropes passing over the pulley block, of a cable, one end of which is secured to the free ends of all the transverse ropes, guide pulleys for the cable, and a hoisting device to which the other end of the cable is
35 connected, substantially as described.

JOHN A. GILLIN.

Witnesses:

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JOSEPH DONDERO.