

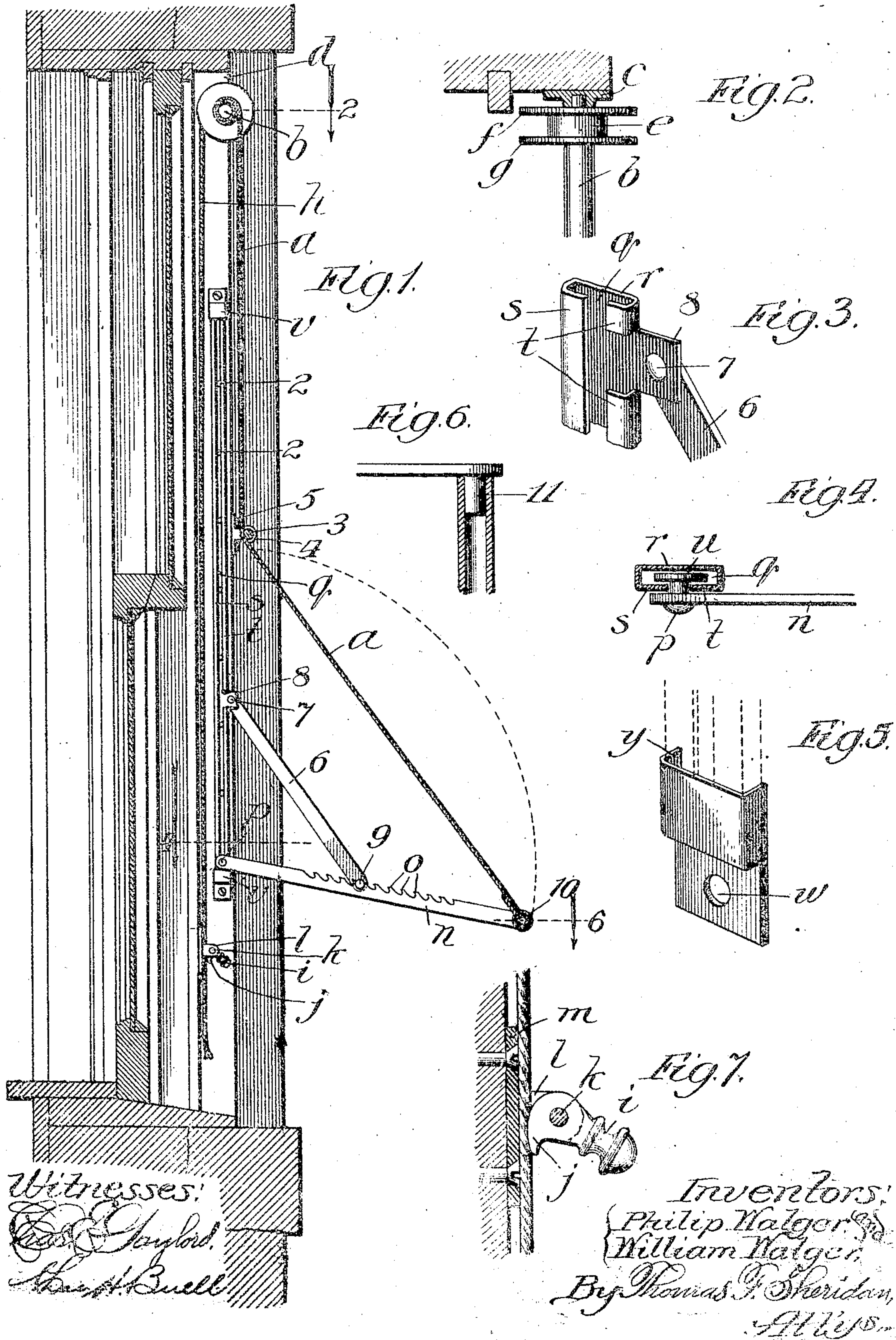
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PATENTED MAR. 26, 1907.

P. & W. WALGER.

AWNING.

APPLICATION FILED JUNE 19, 1905.



UNITED STATES PATENT OFFICE.

PHILIP WALGER AND WILLIAM WALGER, OF CHICAGO, ILLINOIS.

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No. 848,216.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, PHILIP WALGER and WILLIAM WALGER, citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, have jointly invented certain new and useful Improvements in Awnings, of which the following is a specification.

Our invention relates to that class of awnings adapted to be adjusted to different positions and to be stretched tightly in any desired adjusted position and having a lower portion adjustable to any desired incline and adapted to be held tightly stretched while in any adjusted position.

It relates particularly to the means for adjusting the lower portion of the awning to the desired incline and for tightly stretching the awning in any desired adjusted position, by positively holding the awning against downward movement and stretching it by means of braces, and to the means for enabling the awning-supporting braces or arms to be raised and lowered with the awning into and out of operative position.

The principal object of our invention is to provide a simple, economical, and efficient awning.

A further object of the invention is to provide an awning adapted to serve as a curtain when desired and having when in lowered operative position an inclined lower portion adjustable to different lengths and provided with means for tightening the awning and holding it at a tension and for adjusting it to different inclines.

A further object is to provide means for enabling the awning-supporting braces to be raised out of the way when the awning is raised and lowered with the awning and efficiently held in operative position.

A further object is to enable the awning to be stretched as tightly as possible by providing a positive means for holding it against downward movement and stretching it by means of braces.

Other and further objects of the invention will appear from an examination of the drawings and the following description and claim.

The invention consists in the features, combinations, and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a sectional elevation of an awning constructed in accordance with our improve-

ments; Fig. 2, a fragmentary sectional plan view taken on line 2 of Fig. 1, showing the roller and its winding wheel or pulley; Fig. 3, an enlarged perspective view in detail showing the manner of mounting the pivoted braces for stretching the awning and holding the slidably-mounted braces in operative position; Fig. 4, an enlarged sectional plan view in detail taken on line 4 of Fig. 1, showing the manner of slidably mounting the awning-supporting arms or braces in the vertical slots; Fig. 5, a perspective view of one of the end caps for the vertically-slotted members; Fig. 6, an enlarged detail, partly in section, showing the connection between the awning-supporting braces and hollow rod which connects them with the awning; and Fig. 7 an enlarged view in elevation of the catch for positively holding the cord by which the awning is operated.

In constructing an awning in accordance with our improvements we provide a body portion *a*, which may be of canvas or similar material, having its upper end secured to a roller *b*, which is rotatably mounted by means of brackets *c* at the opposite ends thereof in a window-casing *d* on the outside of the window-frame, as shown in Fig. 1. The roller is provided with a sheave-pulley or winding-wheel *e*, having an annular slot in its periphery between flanges *f* and *g*, adapted to receive the operating-cord *h* and permit it to be wound thereon in lowering the awning and unwound in raising it. A catch *i*, having a securing-cam portion *j*, is pivotally mounted by means of a pivot-pin *k* and bracket *l* upon the window-casing near the bottom of the window, so as to securely and removably hold the awning-operating cord between the cam portion of the catch and the base portion *m*.

An awning-supporting brace *n*, having ratchet-teeth *o* upon its upper edge, is mounted at each side of the awning. Each of these braces has its inner end slidably and pivotally mounted and its outer end secured to the lower end of the curtain. To accomplish this, the inner end of each of these braces is provided with a pivot *p*, which extends slidably into a vertical slot of a slotted member formed by a strip of sheet metal *r*, having its opposite edges folded, so as to form flanges *s* and *t*, adapted to receive the pivot of the awning-supporting arm slidably therebetween, such pivot being held slidably in place by means of a head or inner plate *u* on

the inside of the slot, which forms shoulders for guiding the awning-supporting arm in its upward and downward movements and for holding it securely in place in the slot. The slot members are secured to the window-casing by means of top and bottom end plates or pockets *v*, having perforations *w* for receiving suitable screws for holding such pockets in position and having pocket portions *y* for receiving the metallic strip or slot member. Suitable screws or rivets 2 are placed at intervals throughout the slotted member and serve also to hold it securely in place.

A transverse rod 3 is mounted in brackets 4, secured to the window-frame by means of screws 5, such rod extending across the outside of the awning transversely thereof at or near its center when the awning is in lowered position. A pair of stretching-braces 6 each have their upper ends pivotally mounted by means of a pivot 7, which extends through perforated lug portions 8 of the metallic slot members. The outer swinging end of these stretching-braces are each provided with a pin 9, adapted to enter the spaces between and engage the teeth of the awning-supporting braces. The outer ends of the awning-supporting braces are secured to the lower end of the awning by means of a small pipe or hollow rod 10, to the opposite ends of which they are secured by means of pins or cylindrical shoulders 11, which extend into the hollow ends of such rod.

In operation the roller-operating cord is released from the catch and the awning permitted to unroll to the desired length. The cord is then secured to the catch, so as to positively hold the awning against further downward movement and permit it to be tightly stretched in any desired adjusted position. The slidable braces are placed in extended position, so as to hold the lower portion of the awning at an incline, and the pivoted braces are placed in engagement with the slidable braces and their outer swinging end pressed downward, so as to hold the slidable braces in operative position and stretch and hold the awning at a tension. In raising the awning the pivoted braces are released from engagement with the slidable braces. The operating-cord is released from the catch and the awning rolled up to the desired posi-

tion, carrying with it the slidable braces, which are secured to the lower end of the awning body portion. The vertically-slotted members guide the inner ends of the braces, so that they may be readily moved up and down with the awning when desired, and the braces may thus be readily adjusted and held in extended position. By this means the awning can be tightly stretched and held at a tension by means of the brace mechanism, which is adapted to be forced downward against the positive resistance of the operating-cord and catch, and the braces are all out of the way when the awning is raised.

We claim—

In an adjustable awning, the combination with a window-frame of slotted tracks secured to the frame, a vertically-movable body portion slidable in said slots, notched extending arms pivotally secured to the lower part of the movable portion each provided with a shoulder upon the lower side of its free end, a cross-arm extending between the rods and held against said shoulders, a brace-arm pivotally secured to the track portion above the first arm and adapted at its free end to mesh with notches of the first arm, a bearing-roller carried upon said track portion above the pivot of the second arm, a winding-roller carried at the upper end of the window-frame, a curtain around said winding-roller extending downwardly back of the bearing-roller and attached to the cross-rod, a spool portion on the end of the winding-roller, an adjustable cord passing around the spool in the direction opposite to that of the curtain, and means to secure the cord in any desired position whereby the position of the awning body portion may be adjusted and maintained, the weight of said body portion serving to keep the curtain portion taut and the pull upon the curtain serving to keep the notched rod in contact with the brace-arm, and means for readily removing the cross-rod from its retaining-shoulders to allow the curtain to be entirely wound upon the roller, substantially as described.

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Witnesses:

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