(No Model.)

F. B. MALLORY.

AWNING.

No. 305,317. Patented Sept. 16, 1884.

Fig. 1.

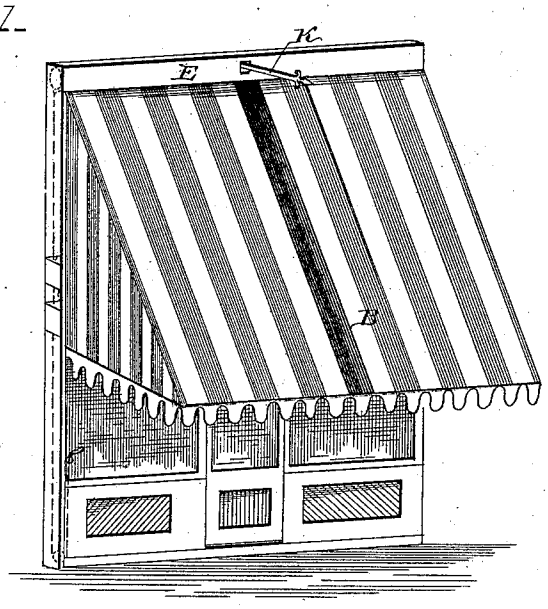


Fig. 2.

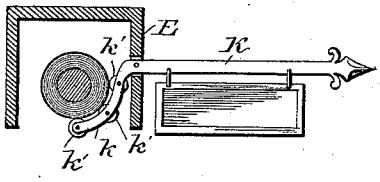


Fig. 3.

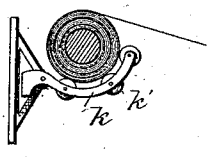


Fig. 4.

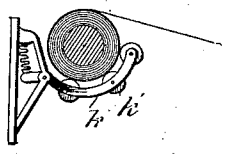


Fig. 5.

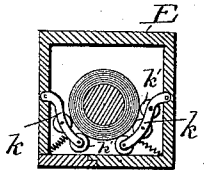
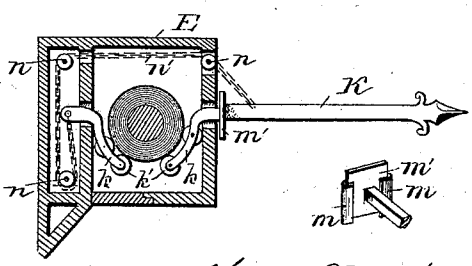


Fig. 6.



WITNESSES

F. L. Ourand.

E. W. Johnson

Frank B. Mallory.
INVENTOR

Attorney

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

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

AWNING.

SPECIFICATION forming part of Letters Patent No. 305,317, dated September 16, 1884.

Application filed June 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, FRANK B. MALLORY, a citizen of the United States of America, 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.

My invention relates to awnings; and it consists in the new and useful improvements, construction, and combinations of parts, as will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a structure having my improved awning applied thereto, and Figs. 2, 3, 4, 5, and 6 are detail sectional views of modifications.

Awning-rolls of great length frequently sag, and therefore do not wind easily or readily. By the improvements herein described this disadvantage is obviated.

In the accompanying drawings I have illustrated several different constructions of devices designed for the furtherance of my invention, the means consisting, essentially, of a pivoted arm or support, K, which will bear upon and support the roll. In Fig. 2 the supporting-arm or pivoted lever is provided with a curved portion, *k*, having anti-friction rollers *k'*, journaled in the curved portion *k*. These anti-friction rollers *k'* will be held automatically against the awning, and will afford a movable support for the same. In Figs. 3 and 4 I have shown the pivoted support provided, respectively, with weighted end and a spiral spring, both tending to force the curved portion *k* against the roll. In Figs. 5 and 6 I make use of two pivoted roller-supports, which are secured within the housing. In Fig. 5 the portion *k*, which carries the anti-friction rollers, is pressed against the roll-awning by suitable springs, which bear against the housing and curved arms. In Fig. 6 the projecting arm or lever K is provided with a chain, which passes over suitable rollers, *n*, pivoted within the housing, over which passes a chain or cord, *n'*, which is attached to the lever K, and a pivoted support located opposite the same, as fully shown. The inner support may be constructed as shown in Fig. 3, or have a weight hung therein.

The housing E, at a point opposite the perforation through which the lever K passes, is provided with a flange-plate, *m*, or guide-ways, within which slides a plate, *m'*, attached to the projecting arm or lever K, so that the perforation in the housing will be effectively closed.

The arm or lever K may be provided with a sign-board or ornament, which is suspended therefrom, which may, if desired, be provided with a receptacle for additional weight when it is desired to increase the tension of the anti-friction rollers on the awning-roll.

The awning-section B is provided at points where the anti-friction rollers come in contact therewith with re-enforcing strips.

From the foregoing it will be apparent that by the employment of the means described and illustrated the awning is caused to wind uniformly upon the roll, and sagging of the same prevented, while other advantages collateral to those above stated are secured.

I claim—

1. The combination, in an awning, of an awning-section attached to a roll, said roll being suitably journaled at, in, or near the top of the window or frame, and a self-adjusting bar or device, pivoted as described, and adapted to exert a yielding pressure against the roll or awning, irrespective of the varying thickness to which the awning may be wound on the roll, substantially as set forth.

2. The combination, in an awning, of an awning-section attached to a roll suitably journaled at the top of the window or frame, and a bar or device provided with anti-friction rolls, pivoted as described, and adapted to exert a yielding pressure against the roll or awning, irrespective of the varying thickness to which the awning may be wound on the roll, substantially as set forth.

3. The combination, in an awning, of a re-

ceptacle or compartment located at the top of the window or frame, a roll suitably journaled therein and having the awning-section suitably attached thereto, and a bar in an opening in the front of said receptacle or compartment, pivoted as described, and adapted to have one portion bear upon the roll or awning thereon, irrespective of the thickness to which the awning may be wound on said roll, while the other portion projects beyond the front of the window or frame for the attachment of a sign or other device, substantially as set forth.

4. The combination, in an awning, of a receptacle or compartment located at the top of the window or frame, a roll suitably journaled therein and having the awning-section attached thereto, a bar located in an opening in the front of said receptacle or compartment, pivoted as described, adapted to have one portion bear upon the roller or awning thereon, irrespective of the thickness to which the awning is wound, while its other portion projects beyond the window or frame, as described, and plates *m' m'*, arranged and operating substantially as set forth.

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

FRANK B. MALLORY.

Witnesses:
C. L. MEAD,
C. HENRY MEAD.