(No Model.)

M. F. WIEDEMANN.

AWNING.

No. 302,809. Patented July 29, 1884.

Fig. 1.

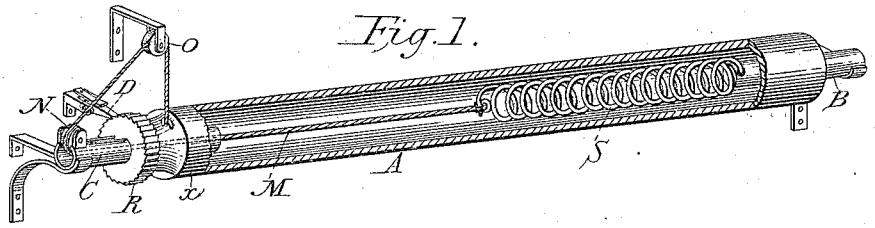
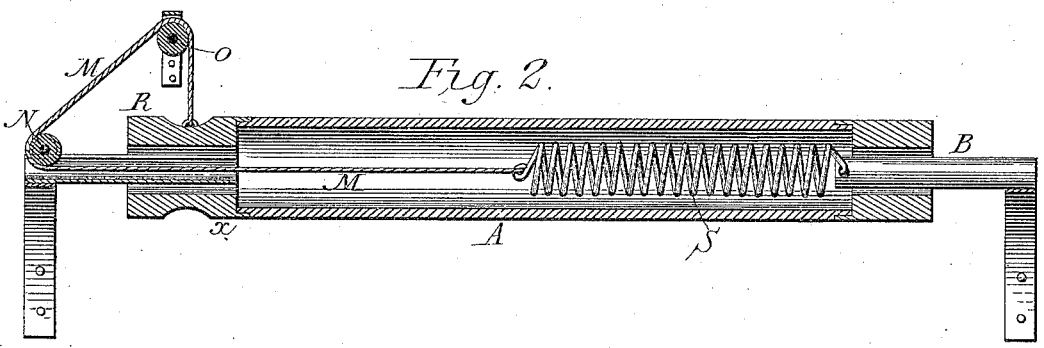


Fig. 2.



Witnesses:
Wm Hillhouse
D. C. Griffin

Inventor:
Martin F. Wiedemann
by Brenemann & Rohde
his attys

UNITED STATES PATENT OFFICE.

MARTIN F. WIEDEMANN, OF BURLINGTON, IOWA.

AWNING.

SPECIFICATION forming part of Letters Patent No. 302,809, dated July 29, 1884.

Application filed May 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, MARTIN F. WIEDEMANN, a citizen of the United States, residing at Burlington, in the county of Des Moines and State of Iowa, have invented a new and useful Improvement in Automatic Awnings, of which the following is a specification.

My invention relates to the use of springs in an automatic awning; and the object of it is to roll up an ordinary awning quickly, neatly, and without injury. I accomplish this by the device hereinafter more fully set forth and described.

Figure 1 is a perspective view, partly in section, of the device. Fig. 2 is a longitudinal section.

In the drawings an awning-frame is shown provided with a hollow roller, A, of any suitable material, into one end of which the journal B, attached to a bracket in the building, or otherwise suitably secured, is inserted. To this journal, and within the roller A, is attached one end of a spiral spring, S. To the other end of S a rope, M, or other suitable connection is attached, and passes out through the perforated journal C in the other end of the roller A, and over the sheave N on the journal, to and over another sheave, O, upon the building, and thence to the roller A, to which it is attached and upon which it winds. The ratchet-wheel R is in one piece with the cap X, and this cap has preferably a square socket to fit upon the squared end of the roller A. That I may use any other suitable mode of fastening the ratchet-wheel upon the roller is evident.

D is a detent or pawl provided with a suitable spring, so placed as to force it down upon the ratchet, and at or near its other end is provided with a rope to pull it away from the ratchet. This detent may be placed on the building or elsewhere.

The awning-frame is provided at any suitable point with a rope or other proper thing to pull it down.

The operation of my invention is as follows: I pull the awning-frame down by the rope, or in any way to any desired position, thus stretching the spring S. The detent D, forced by its spring, at once locks the ratchet-wheel R and holds the awning in place. The side pieces, which have been folded in so as to roll up, can be taken out when the awning is brought all the way down. To roll up the awning the side pieces are first placed in beneath the awning by any simple arrangement. The pawl is then moved, and the spring S within the roller resumes its natural position, and the roller itself is turned rapidly until the awning is entirely up.

I am aware that awnings have been provided with a variety of spring-rollers. By making the roller hollow its entire length, as I do, the spring is not only protected, but has full play, and the awning plenty of room to run down.

What I claim is—

In an awning such as described, the roller A, hollow its entire length, the hollow journal C, having the sheave N, the cap X, having the ratchet R, the pawl D, engaging such ratchet, the sheave O, the journal B, the spring S, and rope M, all constructed, arranged, and combined in the manner and for the purposes set forth.

MARTIN F. WIEDEMANN.

Witnesses:
J. C. STONE,
SARA L. ROHDE.