(No Model.)

W. BENNETT.

AWNING.

No. 573,639. Patented Dec. 22, 1896.

Fig. 1.

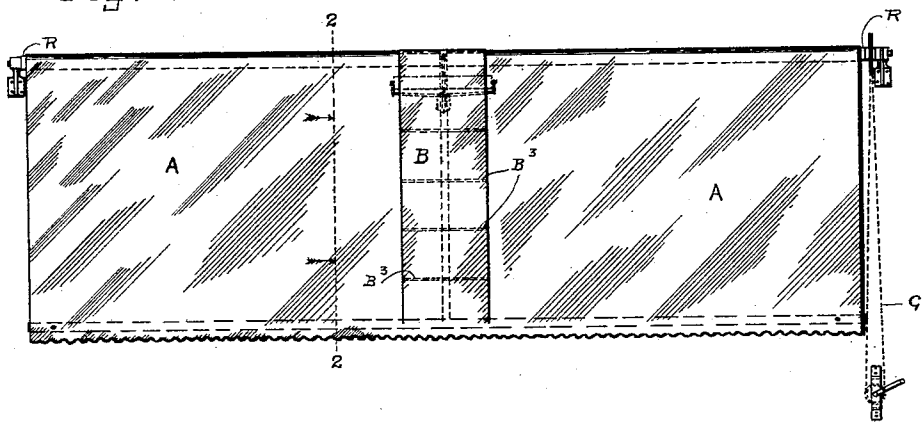


Fig. 2.

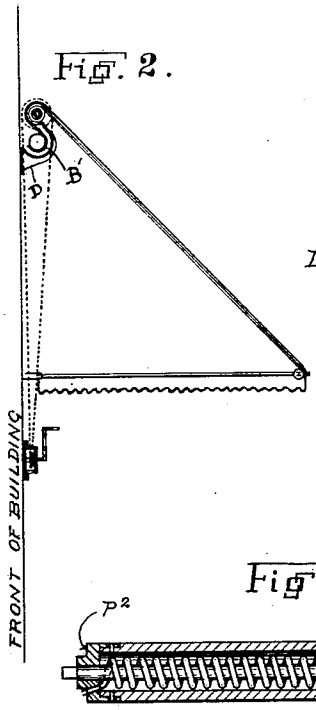


Fig. 3.

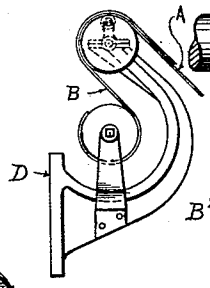


Fig. 4.

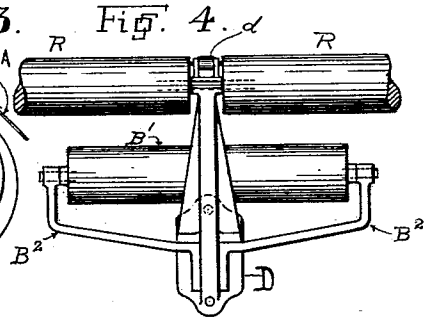


Fig. 5.

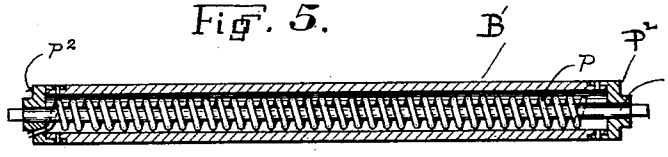


Fig. 6.



Witnesses
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UNITED STATES PATENT OFFICE.

WELLINGTON BENNETT, OF CHICAGO, ILLINOIS.

AWNING.

SPECIFICATION forming part of Letters Patent No. 573,639, dated December 22, 1896.

Application filed February 15, 1896. Serial No. 579,371. (No model.)

To all whom it may concern:

Be it known that I, WELLINGTON BENNETT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Awnings, of which the following is a specification.

The object of my invention is to provide what is known as a "roller-awning" having the general merits described herein; and the invention consists in the devices set forth in the claims hereof.

Reference will be had to the accompanying drawings, in which—

Figure 1 is a front view of the awning when let down. Fig. 2 is a sectional view on line 2 2 of Fig. 1. Fig. 3 is an enlarged end view of the middle support of the main roller and the support for the auxiliary roller. Fig. 4 is a front view of the parts shown in Fig. 3. Fig. 5 is a sectional view of the auxiliary roller. Fig. 6 is an end view of the auxiliary roller.

In the drawings, A designates the main awning-cloth, R the roller upon which the cloth is wound, and G the ordinary chain-gearing used in rolling up the awning.

The roller-awnings of this class as now made are provided with one long continuous roller and awning-cloth, and in most instances the roller is so long that it requires support intermediate between the ends, which supports are ordinarily made with a bracket holding several rollers in contact with the outside of the cloth wound upon the main roller, and these rollers in contact with the cloth injure it and at times cause faults in the winding of the cloth upon the roller. In my awning I make the main roller in sections and provide bearing-brackets for the axis of the roller at proper intervals along the length of the awning, which bearing-brackets are designated in the drawings by D, and I make the awning-cloth in sections to correspond with the sections of the main roller, leaving a small opening between the sections of the main cloth, and I cover those openings with an auxiliary cloth, (designated by B,) which is wound upon the auxiliary roller B′, which roller is supported by brackets B^2, fixed to the bracket D. In the top of the bracket D there is a small roller *d* to carry the auxiliary cloth B over the space between the ends of the main roller-sections.

The auxiliary roller B′ is actuated in winding up the cloth by the coil-spring P on the inside of the roller B′, one end of the spring being connected to the axis P′ of the roller and the other end connected to the flange end P^2. The axis P′ is held from revolving by means of its square ends, which are held in the brackets B^2. The auxiliary cloth is provided with stiffening-strips B^3, fastened to the under side of the cloth for the purpose of preventing it from curling up laterally by the action of the wind.

The operation of the device is thus: The main roller is revolved by the gearing G, winding up the main cloth A and incidentally drawing up the auxiliary cloth B by reason of its passing over the top of the roller R, and the spring-actuated roller B′ winds up the auxiliary cloth B, and on lowering the awning the weight of the awning causes it to fall as the main roller R is unwound, and the weight draws down the auxiliary cloth against the tension of the spring of the auxiliary roller, and the action of the spring keeps the auxiliary cloth taut at all times, thereby providing for the unequal stretching or adjustments of the cloths.

What I claim is—

1. The combination with a suitably-mounted roller, of distinct awning-sections winding thereon, a second roller mounted parallel to the first, a narrow awning-strip winding upon the second roller and lying upon adjacent sections, covering the break between them, means for holding the free ends of said sections and strip in line, means for rotating the roller first named, and independent means for rotating the second roller.

2. The combination with an awning-roller, of an awning winding upon said roller and composed of slightly-separated sections, means for rotating said roller, an independently spring-actuated roller mounted alongside the roller first mentioned, and an awning-strip covering the break between adjacent awning-sections and automatically held taut by said spring-roller.

3. The combination with an awning-roller and means for rotating the same, of slightly-

separated awning-sections winding upon said roller, a second, independently-revoluble, spring-actuated roller mounted alongside the first, and a strip winding upon the second roller, overlapping two adjacent awning-sections, and provided with transverse stiffening-bars to prevent lateral curling.

In witness whereof I have hereunto signed my name in the presence of two witnesses.

WELLINGTON BENNETT.

Witnesses:
F. H. DEANE,
F. MILLER.