

UNITED STATES PATENT OFFICE.

ERNST CORNITIUS, OF WACO, TEXAS.

METALLIC AWNING.

SPECIFICATION forming part of Letters Patent No. 722,566, dated March 10, 1903.

Application filed August 2, 1902. Serial No. 118,186. (No model.)

To all whom it may concern:

Be it known that I, ERNST CORNITIUS, a citizen of the United States, residing at Waco, in the county of McLennan and State of Texas, have invented certain new and useful Improvements in Metallic 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.

My invention relates to improvements in metallic awnings; and it consists of certain novel features, which will be hereinafter described and claimed.

Reference is had to the accompanying drawings, in which the same parts are indicated by the same letters throughout the several views.

Figure 1 shows a side elevation of a metallic awning constructed according to my invention, the door or window frame being shown in section. Fig. 2 is a front view of the awning shown in Fig. 1, and Fig. 3 is a side view of a modified form of the awning.

Referring now to Figs. 1 and 2, A represents a door or window frame to which two brackets B are secured, in which brackets toggle-bars C and D are pivoted. The toggle-bar C is attached, as at *a*, to the door or window frame and does not move; but the toggle-bar D has pivoted thereto the longer toggle-bar E, which is bisected by the toggle-bar F, and both are pivoted together. This toggle-bar F is pivoted at its inner end to the lower end of the toggle-bar C and at its outer end to the toggle-bar I. The short toggle-bar G is pivoted at one end to the bracket B', fast to the door or window frame, and is pivoted at the other end to the ends of the toggle-bars E and H. To prevent the toggle-frame thus formed from hanging down too far, I provide straps K and M, which are pivoted at *k* and *m*, respectively, and are provided the one with a stud *k'* engaging in a slot *m'* in the other. When this stud reaches the end of its slot, the toggle-bar H can drop no farther, and thus these straps serve to automatically limit the lowest position to which the awning may be dropped.

On top of the toggle-bars D, F, and H, I secure plates P, P', and P², the outer ends of which slope outward and downward, as indi-

cated at *p*. The inner ends of the plates P' and P² are inclined upward, as indicated at *p'*, and thus these inclined edges *p'* and *p* give between them a zigzag passage, which permits the passage of air backward and forward through the awning, but would not permit rain to pass through except in a driving storm.

I have shown the bars D, F, and H provided with small lugs *d*, *f*, and *h* to strengthen the same where the awning-plates are riveted thereto. These lugs may be omitted, if desired.

Q represents a cord or rope which passes over the pulley R, by means of which rope the awning may be pulled up, as indicated in dotted lines, or lowered to the position shown in full lines, as may be desired.

The flaps *p'* of the plates P' and P² may be cut away, as shown at *p³*, to prevent said flaps from abrading said cord. Notches P³ may be provided to present an artistic effect.

In the form of device shown in Fig. 3 the awning is made of a number of metallic frames or bows all pivoted about the same center T⁰ and each bow struck with a lesser radius than the outer bow. Thus the bow T, having the greatest radius, is fast to the bracket B² and carries a stud *t*, projecting into the slot *t⁰* in the bow T'. The latter bow carries a similar stud *t*, projecting into a similar slot *t⁰* in the bow T² and similarly with the bow T³. The cord Q is fast to the bow T³ and is rove over the pulley R. By pulling up on this cord the several bows swing up into the closed position, as will be obvious.

The tops of the bows T² and T³ must clear the stud *t* of the bows T' and T, respectively, and thus an air-space will be left between adjacent bows, which will enable the passage therethrough of air, but at the same time will prevent the ingress of rain, except a driving rain, in which case the awning would probably be pulled up.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A metallic awning, comprising a plurality of toggle-bars pivoted together and connected to the house, awning-plates carried by said toggle-bars, straps provided with a stud

and a slot, respectively, connected to the lower member of the toggle-frame and preventing the same from opening downward too far, and a cord and pulley connected to said toggle-bars and adapted to raise said awning or lower same, substantially as described.

2. A metallic awning, comprising a plurality of toggle-bars pivoted together and connected to the house, awning-plates carried by said toggle-bars, said plates having downwardly-inclined outer edges and all but the upper plate having upwardly-inclined inner

edges, straps provided with a stud and a slot, respectively, connected to the lower member of the toggle-frame and preventing the same from opening downward too far, and a cord connected to said toggle-bars and adapted to raise said awning or lower same, substantially as described.

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

ERNST CORNITIUS.

Witnesses:

EDWIN W. HANDER,
M. J. GAVIN.