

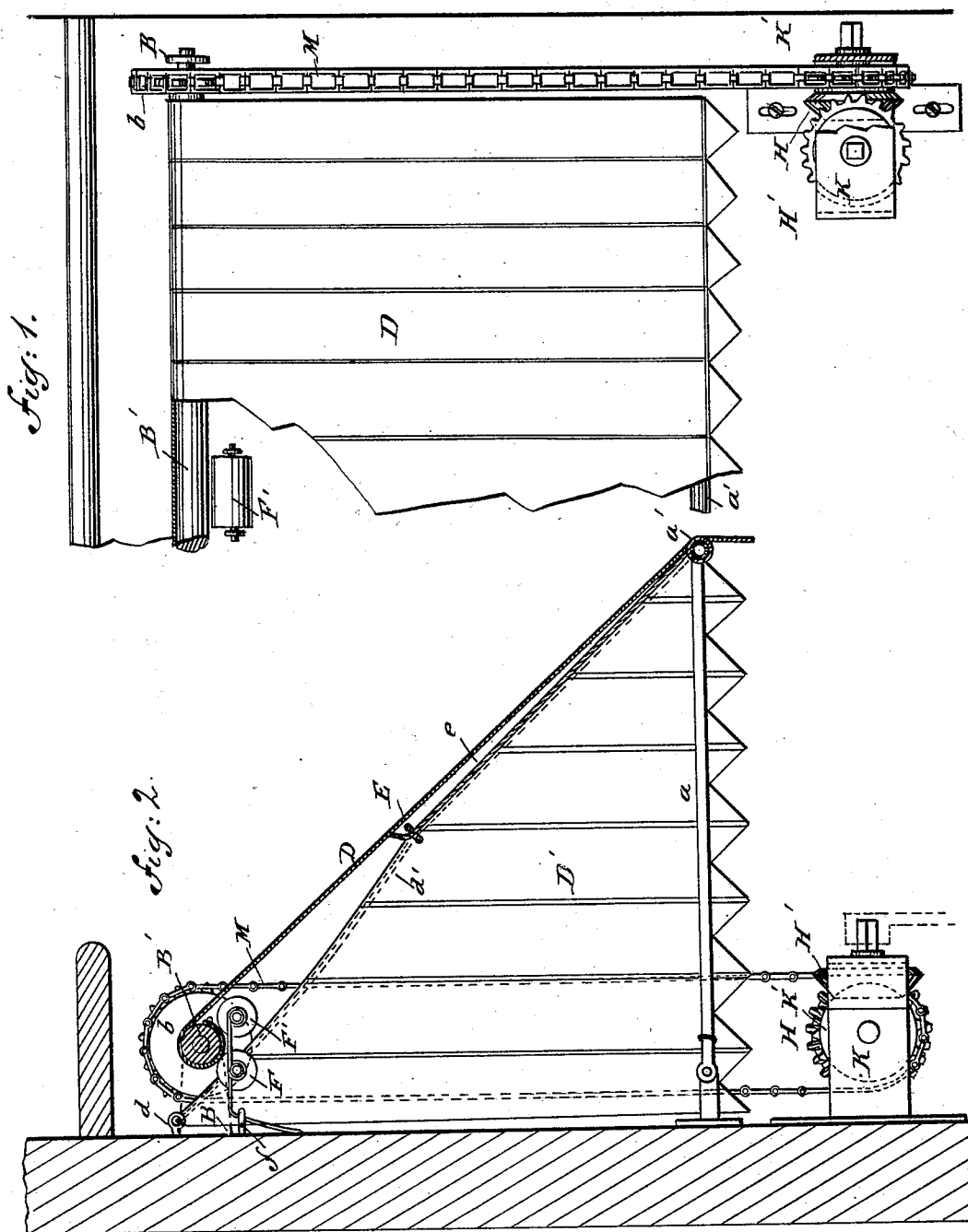
(No Model.)

T. SHARROW.

DEVICE FOR OPERATING AWNINGS.

No. 361,091.

Patented Apr. 12, 1887.



WITNESSES:

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THEOPHILE SHARROW, OF KANKAKEE, ILLINOIS, ASSIGNOR OF ONE-HALF
TO HENRY C. COOPER, OF SAME PLACE.

DEVICE FOR OPERATING AWNINGS.

SPECIFICATION forming part of Letters Patent No. 361,091, dated April 12, 1887.

Application filed February 26, 1887. Serial No. 228,960. (No model.)

To all whom it may concern:

Be it known that I, THEOPHILE SHARROW, of Kankakee, in the county of Kankakee and State of Illinois, have invented a new and Improved Device for Operating Awnings, of which the following is a full, clear, and exact description.

My invention relates to a device for operating awnings, and has for its object to provide a means whereby an awning may be readily raised and lowered, and wherein the said awning, when raised, will be wound upon a suitable roller, and be thereby protected from the weather and prevented from creasing.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a partial front view of an awning having my device applied, and Fig. 2 is a central vertical section thereof.

In carrying the invention into effect the usual lower side bars, *a*, are employed, pivoted to a bracket secured to the side of a building, and connected by a fixed transverse bar, *a'*.

At each side of the window or opening to be covered by an awning horizontal brackets *B* are attached, adapted to carry a roller, *B'*, which roller is provided with a flange at one end and a sprocket-wheel, *b*, at the other, the said flange and sprocket-wheel being rigidly attached to the roller, preferably immediately inside the brackets.

The upper edge of the front section, *D*, of the awning is attached to the roller *B'*, and the lower end is held in connection, in any suitable manner, with the transverse bar *a'*. The lower edge of the side pieces, *D'*, of the awning are rigidly secured to the outer end of the said transverse bar *a'*, and also adjustably attached near the inner end of the aforesaid bar *a'*, as shown in Fig. 2, the upper end of said side pieces being securely fastened to a screw-eye, *d*, or similar device located at the side of the window beneath the roller *B'*. Each side piece, *D'*, has its upper inclined edge hemmed,

and a strip of elastic material, *d'*, held in said hem, having its ends attached under tension to said side pieces, and centrally the upper inclined edge of each side piece, *D'*, a ring, *E*, is attached upon the inside, through which ring a cord, *e*, is passed, having one end attached to the outer edge of the front piece, *D*, and the other end to the transverse bar *a'*, as shown in Fig. 2. Thus the sides are held in engagement with the front, and through the elastic strips *d'* the side pieces automatically gather or fold upon themselves as the awning is hoisted up.

As a guide for the transverse roller *B'*, friction-rollers *F F'* are held in bearings beneath and in engagement with, centrally, the said roller *B'*, the friction-rollers being detachably supported in a horizontal position by the entrance of their carrying-frame in suitable sockets, *f*, attached to the wall above the window.

As a means for raising and lowering the awning, bevel gear-wheels *H H'* are journaled in an angular bracket, *K*, horizontally attached to the side of the window-frame near the sill. One arm of said bracket extends inward. Each gear is provided with an integral post adapted to receive a suitable key or crank, and the gear *H*, with a sprocket-wheel, *K'*, keyed upon the same shaft, which sprocket-wheel and the sprocket-wheel *b* above, in vertical alignment therewith, are made to carry an endless chain belt, *M*. The outer bevel-gear, *H'*, may be dispensed with, if found desirable, being simply placed in connection with the inner gear, *H*, for convenience.

If found desirable, in place of the elastic strip *d'*, a jointed bar may be used to control the folding of the side pieces.

From the foregoing description, read in connection with the drawings, the operation will be readily understood.

The device may be used in connection with curtains or similar articles as conveniently as with awnings.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with an awning consisting of the side pieces, *D'*, provided with an attached upper elastic strip, *d'*, a front piece,

D, held to said side pieces by a ring, E, and a cord, *e*, of a roller, B', attached to the upper end of said front piece, carrying a sprocket-wheel, *b*, an endless chain belt, M, the sprocket-wheel K', journaled below said awning, and means for revolving said sprocket-wheel K', substantially as shown and described.

2. The combination, with an awning consisting of the side pieces, D', provided with an attached upper elastic strip, *d'*, a front piece, D, held to said side pieces by a ring, E, and cord *e*, of a roller, B', attached to the upper

end of said front piece, carrying a sprocket-wheel, *b*, friction-pulleys held below and in connection with said rollers, an endless chain belt, M, the sprocket K', below the awning, and means for turning said sprocket-wheels, substantially as shown and described.

THEOPHILE ^{his} X SHARROW.
_{mark.}

Witnesses:

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