

No. 711,850.

Patented Oct. 21, 1902.

C. S. HAMILTON.

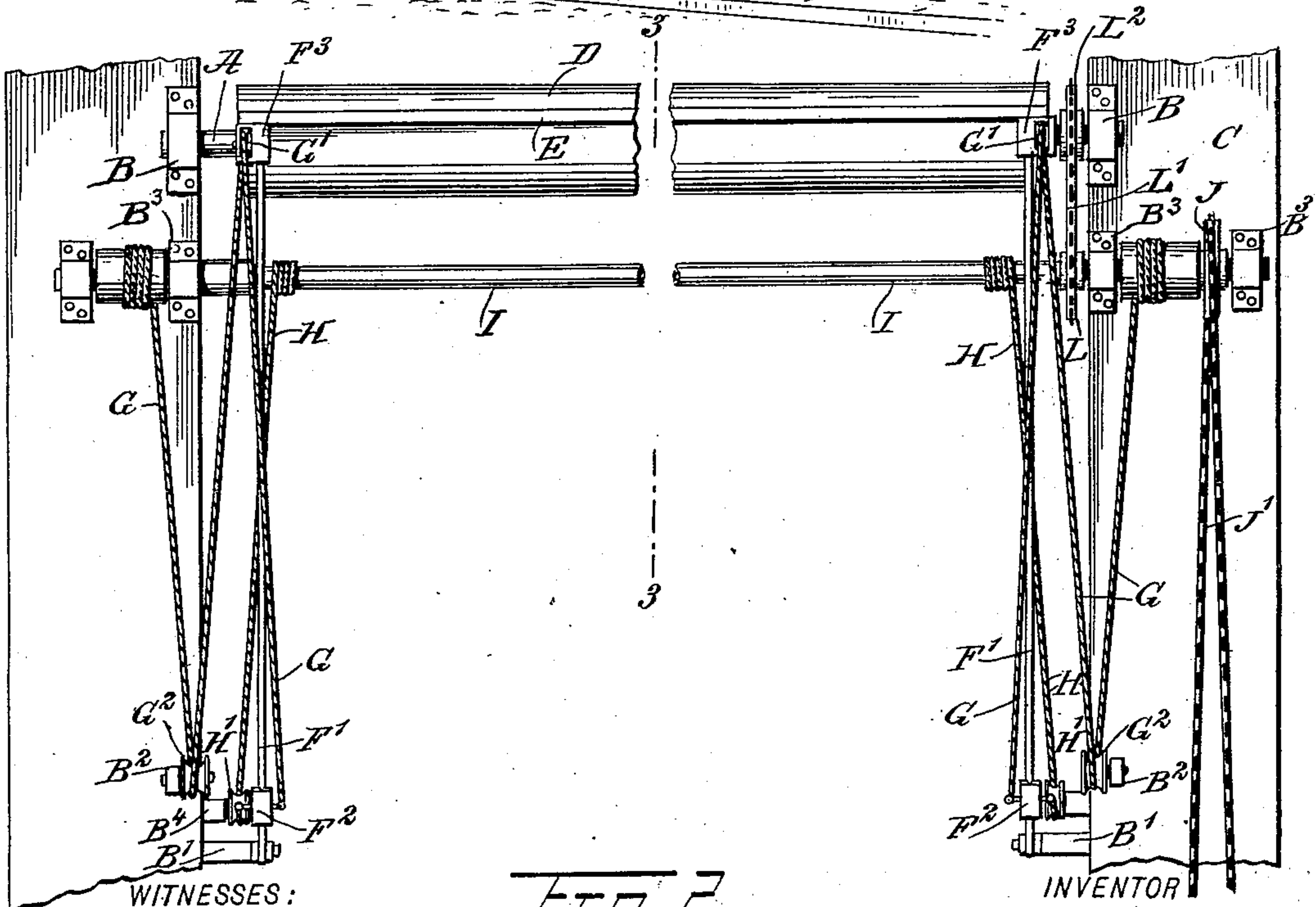
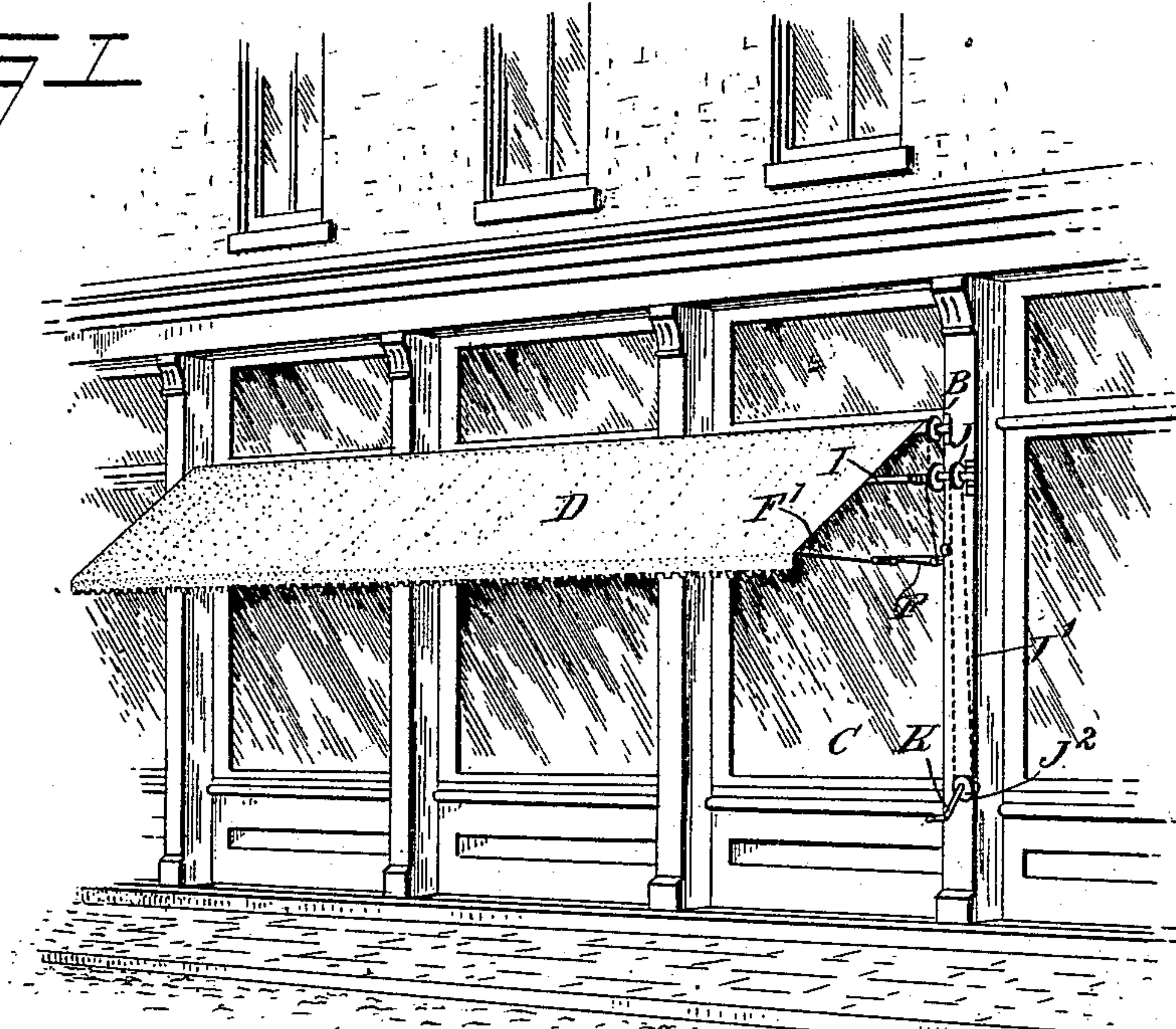
AWNING.

Application filed Feb. 26, 1902.

(No Model.)

2 Sheets—Sheet 1.

FIG 1



WITNESSES:

W. Walker
Geo. H. Hester

FIG 2

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Clarence S. Hamilton
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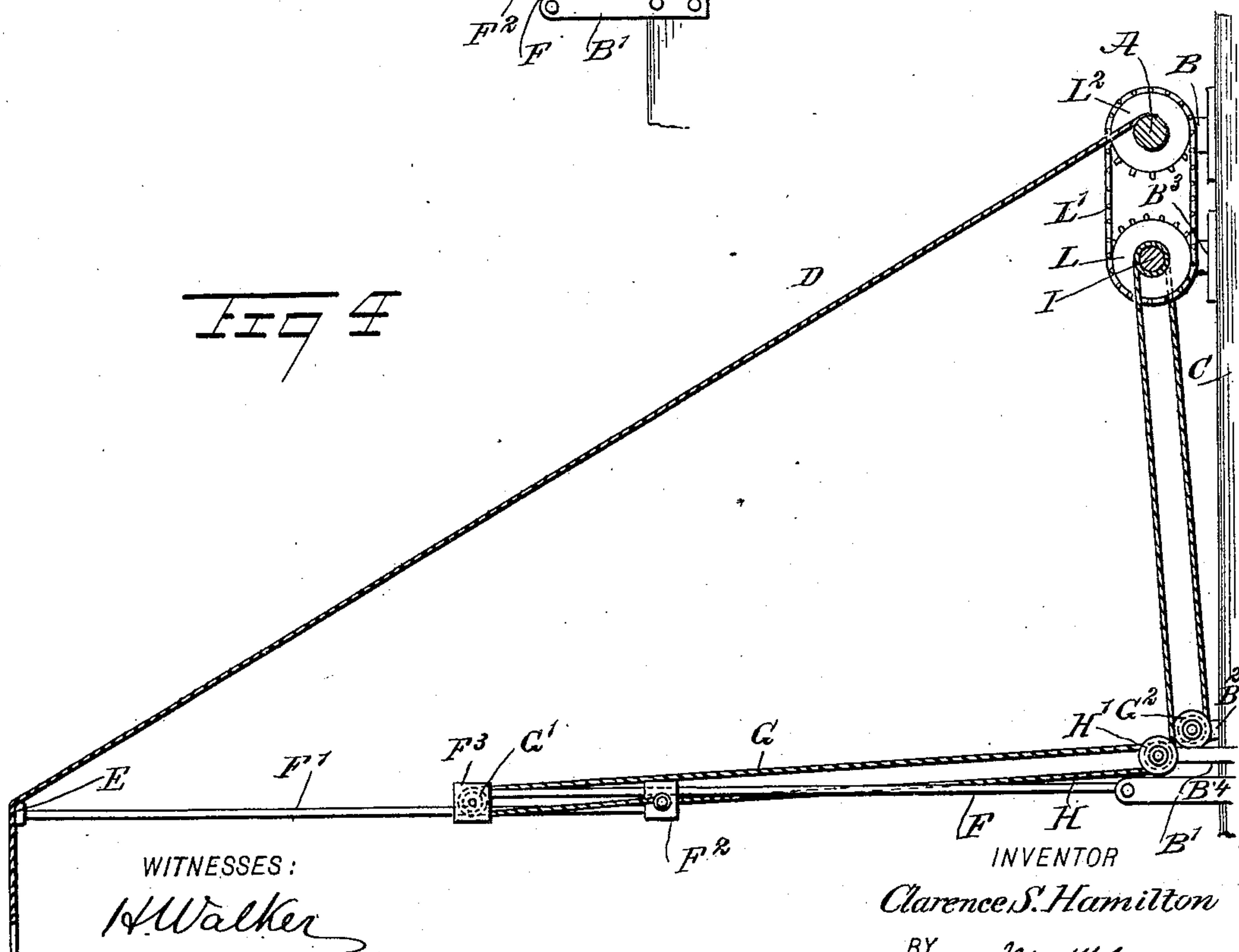
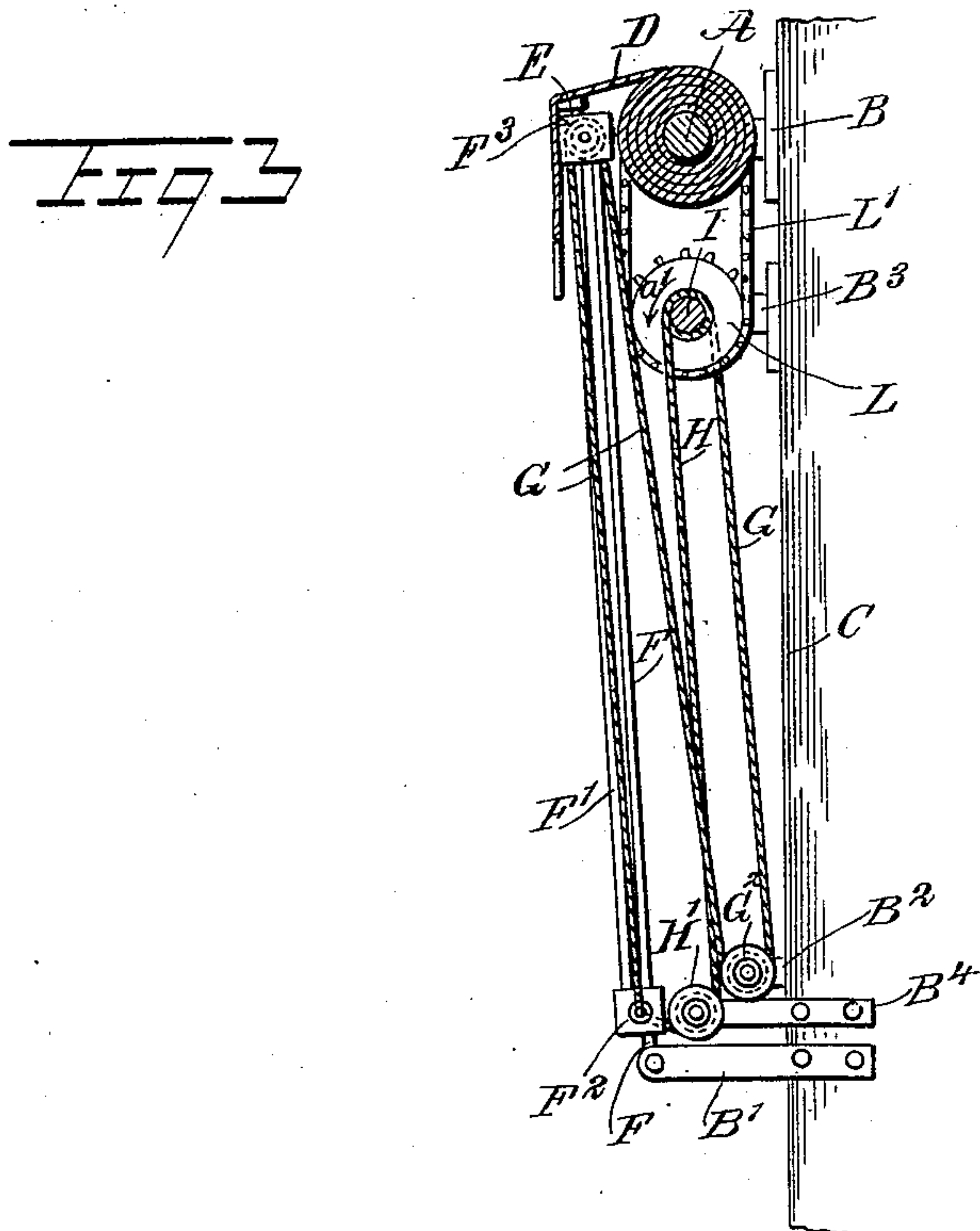
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WITNESSES:

H. Walker
Geo. J. Hoster

INVENTOR

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BY

Mumby
ATTORNEYS

UNITED STATES PATENT OFFICE.

CLARENCE SLOAN HAMILTON, OF SALEM, OREGON.

AWNING.

SPECIFICATION forming part of Letters Patent No. 711,850, dated October 21, 1902.

Application filed February 26, 1902. Serial No. 95,693. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE SLOAN HAMILTON, a citizen of the United States, and a resident of Salem, in the county of Marion and State of Oregon, have invented a new and Improved Awning, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved awning which is simple and durable in construction and arranged to permit of conveniently and quickly extending the canvas or moving it into an inactive position by the operator simply turning a crank.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement as applied and in an extended position. Fig. 2 is an enlarged front elevation of the improvement, showing the webbing wound up on the roller. Fig. 3 is a transverse section of the same on the line 3 3 of Fig. 2, and Fig. 4 is a similar view of the same in an extended position.

The awning-roller A is journaled in suitable bearings B, attached to the face of the building C on which the awning is to be used, and on the said roller A winds and unwinds the webbing D, of canvas or other suitable material, provided on its free end with a stretcher-bar E, on which are secured the outer ends of the extension members F' of side arms F, pivoted on bearings B', secured to the face of the building C a distance below the bearings B. Each extension member F' is provided at its inner end with a block F², mounted to slide on the arm F, and the said extension member is guided loosely in a block F³, secured to the outer end of the arm F. An outward and inward sliding movement is given to the extension members F' of the side arms F at the time the webbing D is unwound or wound up on the roller A, and for this purpose the following device is provided.

Two ropes G and H are arranged for each side arm and its extension member, the rope G being secured to the block F² to then extend over a pulley G', journaled in the block F³, the rope then passing under a pulley G², journaled on a bracket B², secured to the face of the building C, the rope then extending upward to wind on the driving-shaft I, journaled in suitable bearings B³, secured to the building C a short distance below the bearings B. The other rope H is secured to the block F² and then extends under a roller H', journaled on a bracket B⁴, the rope then extending upward to wind on the shaft I in an opposite direction to the rope G. Now when the shaft I is rotated in one direction then one of the ropes G and H is wound up, while the other is unwound, and when the several parts are in the position shown in Fig. 3 and the shaft I is turned in the direction of the arrow a' then the ropes G are wound up on the shaft I, while the ropes H unwind, and the said ropes G exert a pull on the blocks F² and cause the extension members F' to slide outwardly on the arms F. When the shaft I is turned in the inverse direction of the arrow a', then the ropes H wind up on the shaft I, while the ropes G unwind, and consequently the ropes H exert a pull on the blocks F², so as to draw the same inward, and consequently move the extension members F' into the folded position shown in Figs. 2 and 3.

In order to rotate the shaft I in either of the directions mentioned, I provide the said shaft with a sprocket-wheel J, connected by a sprocket-chain J' with a sprocket-wheel J², journaled on the face of the building C, near the sidewalk thereof, as plainly indicated in Fig. 1, so that the operator turning the crank-arm K on the said sprocket-wheel J² causes rotation of the shaft in one direction, according to the direction in which the crank-arm K is turned. At the same time that the extension members F' are caused to move into an extended or a folded position the roller A is turned to unwind or wind up the webbing D, and for this purpose the roller A is driven from the shaft I, the latter being provided with a sprocket-wheel L, connected by a sprocket-chain L' with a sprocket-wheel L²

on the said roller A. This movement of the extension members F' is in unison with the rotation of the roller A.

As shown in Fig. 1, the awning-roller is located below the transom of the building C, so that light can at all times pass through the transom into the building whether the awning is rolled up or extended.

The device is very simple and durable in construction, is composed of comparatively few parts, and requires but little exertion on the part of the operator for turning the crank-arm K to extend the awning or to roll the webbing up and fold the side arms against the face of the house when the awning is not to be used.

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

1. An awning comprising a roller, a webbing adapted to wind and unwind on the roller, pivoted side arms having extension members connected with the free end of the said webbing, ropes connected with the extension members, and means for simultaneously rotating the roller, to wind up or unwind the webbing, and moving the ropes to fold up or extend the said extension members on the said side arms while swinging the latter up or down, as set forth.

2. An awning comprising a roller, a webbing adapted to wind and unwind on the roller, pivoted side arms having extension members connected with the free end of the said webbing, means for simultaneously rotating the roller to wind up or unwind the webbing and to fold up or extend the said extension members on the said side arms while swinging the latter up or down, the said means comprising a shaft mounted to turn and under the control of the operator, a gearing between the shaft and the said roller, and ropes connected with the extension members, and arranged so that one set of ropes winds up on the shaft while the other unwinds, as set forth.

3. An awning having a shaft under the control of the operator, sets of ropes of which one set winds up on the said shaft and the other unwinds therefrom at the time the shaft is rotated in one direction, pivoted side arms having extension members mounted to slide on the side arms, the said extension members being connected with the sets of ropes, and guide-pulleys for the said sets of ropes, as set forth.

4. An awning having a shaft under the control of the operator, sets of ropes of which one set winds up on the said shaft and the other unwinds therefrom at the time the shaft is rotated in one direction, pivoted side arms having extension members mounted to slide on the side arms, the said extension members being connected with the sets of ropes, guide-pulleys for the said sets of ropes, a roller rotating in unison with the said shaft, and a webbing winding and unwinding thereon and connected with the free ends of the said extension members, as set forth.

5. In an awning, pivoted side arms having guides at their outer ends, extension members having guides at their inner ends mounted to slide on the side arms, the said extension members being connected at their outer ends with the awning-webbing and extending through the guides at the outer ends of the side arms, a set of ropes secured to the guides at the inner ends of the extension members and passing over pulleys journaled in the guides at the outer ends of the side arms, a second set of ropes also secured to the said guides at the inner ends of the extension members, guide-pulleys for the said sets of ropes, and means for winding and unwinding the sets of ropes, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CLARENCE SLOAN HAMILTON.

Witnesses:

JOHN H. McNARY,
H. W. WATERS.