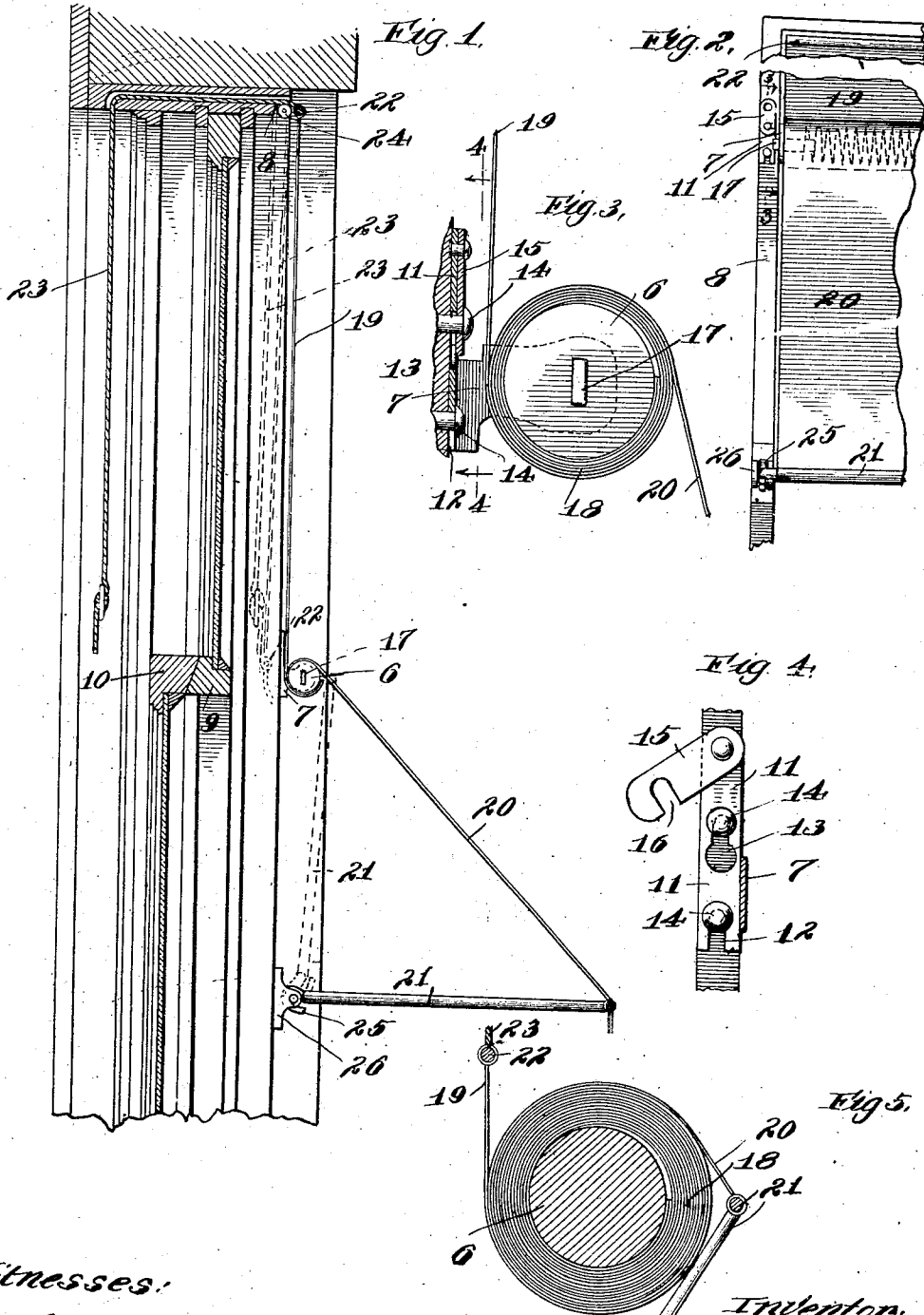


H. SMITH.
AWNING.

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UNITED STATES PATENT OFFICE.

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AWNING.

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To all whom it may concern:

Be it known that I, HENRY SMITH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Awnings, (Case No. 1,) of which the following is a specification, reference being had therein to the accompanying drawing.

10 My invention relates to awnings of that class which when extended have a vertical upper portion and an inclined lower portion, and particularly relates to a novel and useful arrangement of parts constituting such
15 awning, and also to an organization whereby such awning and its attaching fixtures are reduced to a minimum of parts and are quickly and readily assembled and disassembled.

20 The invention consists in the organizations and arrangements of parts hereinafter described and claimed.

In the accompanying drawings which illustrate a practical embodiment of my invention, Figure 1 is a sectional elevation of an awning constructed in accordance with my invention and mounted in position for use, part of the window casing being broken away; Fig. 2 is a detail front view on one side of Fig. 1 and with parts broken away; Fig. 3 is a detail end view of the awning-roller and its detachable bracket, with parts broken away and others in section on the line 3—3 of Fig. 2; Fig. 4 is a sectional view on the line 4—4 of Fig. 3, and Fig. 5 is a detail end view of the awning-roller with the awning wound thereon and the frame shown broken away and raised to its position when the awning is wound up.

40 The reference numeral 6 indicates a spring-roller mounted in suitable brackets 7 secured upon the outside of the window casing 8 at or near the point where the upper and lower sashes 9 and 10 meet. In the general adaptation of my invention the brackets may be of any suitable form adapted to hold a spring-roller operatively in position, but I prefer to make them removable. For this purpose I provide the brackets with an angular body
50 11 adapted to be detachably secured to the window casing by means of a lower open slot 12 and a differential slot 13 adapted to engage with suitably headed screws 14 on the casing. It is obvious that by passing
55 the larger portion of the upper slot 13 over

the head of its associated screw and the lower end of the body 11 beneath the head of its screw in line therewith, the bracket may be forced down to place with the heads of the screws overlying the body as shown 60 in Fig. 4. To hold the parts in this assembled position, the body 11 is provided with a pivoted latch 15 adapted to be swung into position to receive the upper screw in its notch 16; by this arrangement the brackets 65 may be readily assembled and disassembled on the casing and are held against accidental displacement. The brackets, of whatever form and arrangement they may be in practice, support a spring-roller 6 of ordinary form in which the spring is secured at one end to the roller and at the other to a squared projection 17 engaging a bracket 7 whereby the spring is put under tension as the roller is revolved to unwind the awning 75 18 and will revolve in opposite direction by the tension of the spring to wind up the awning.

The awning consists of a suitable length of canvas or other material, connected intermediate its ends to the roller so that its upper and lower portions 19 and 20 will readily wind thereon, such for example as shown in Figs. 1 and 5. The lower section is attached at its free end to an iron frame 21 pivotally 85 connected to the window casing and adapted to turn up to the position shown in dotted lines in Fig. 1 when the awning is wound up. The frame is so arranged and the parts so proportioned that when the awning is wound 90 upon the roller, the frame will stand off center as shown by the dotted lines in Fig. 1 and the full lines in 5 and in position to fall to extended position by gravity when the awning is unwound. 95

The upper section 19 of the awning is preferably provided with a cross-piece 22 to which an operating cord 23 is connected by which the upper section is extended or drawn upwardly to the position shown in Fig. 1, 100 this operation revolving the roller to place its spring under tension and allowing the lower section 20 of the awning to unwind and the frame 21 to swing down to extended position. The cord may pass through the window casing into the room as shown in full lines in Fig. 1 or it may pass over a pulley 24 and down upon the outside as shown in dotted lines in Fig. 1; the end of the cord may be suitably fastened either inside or outside, or 110

the pulley 24 may be of the well-known snatch-pulley type to hold the cord in any position of the awning. As the cord extends the awning and puts the spring-roller under tension, when the cord is released the roller winds the awning up automatically to withdraw the upper and lower section from over the upper and lower sashes and to swing the frame 21 up into the window-opening.

10 The frame 21 is detachably secured to the window-casing, and for this purpose any suitable fixtures may be employed; for example, the ends of the frame may be provided with hooks 25 removably engaging jaw hinges 26 on the casing.

By employing the fixtures here disclosed, the hinges 26 and the screws or bolts 14 are the only parts left on the window when the awning is removed for storage out of season, and the awning may be assembled by merely engaging the brackets with their screws and the hooks with their hinges and may be disassembled by merely disconnecting these parts. This reduces the number of parts to a minimum and permits the awning to be installed or removed by unskilled workmen or the owners themselves, and without the necessity of attaching fixtures every time it is installed which operations would wear away the casing with repeated nails, screws, etc.

While I prefer to make the awning in one piece, it is obvious that the upper and lower sections may be separate if desired. Also in the broad aspect of my invention any suitable fixtures may be employed; also, any device performing the function of the roller to wind and unwind the awning may be employed, and in general changes may be made in form and arrangement of parts without departing from my invention.

Having described my invention, I claim:—

1. In a device of the class described, an awning having upper and lower sections, means adapted to be connected to the outside portion of a window-casing intermediate the length of the awning for winding and unwinding the sections, an awning frame connected to the lower section and to the window-casing and adapted to swing outwardly from the casing when the lower section is extended, and a support for the free end of the upper section when extended.

2. In a device of the class described, an awning having upper and lower sections, a roller adapted to be mounted on the outside portion of a window-casing intermediate the length of the awning for winding and unwinding the sections, an awning frame connected to the lower section and to the window casing and adapted to swing outwardly from the casing when the lower section is extended, and means on the free end of the upper section to unwind the awning.

3. In a device of the class described, an

awning having upper and lower sections, a spring-roller adapted to be mounted on the outside portion of a window-casing intermediate the length of the awning for winding and unwinding the sections, an awning frame connected to the lower section and to a window-casing and adapted to swing outwardly from the casing when the lower section is extended, and a flexible connection on the upper end of the upper section to unwind the awning against the tension of the spring-roller.

4. In a device of the class described, a spring-roller adapted to be mounted on the outside portion of a window-casing, a suitable length of awning-material connected to the roller intermediate its ends and adapted to be wound and unwound in upper and lower sections, an awning-frame mounted on the casing and connected to the free end of the lower section and adapted to swing it out when the section is unwound, and means for extending the upper section to put the roller under tension.

5. In a device of the class described, a spring-roller adapted to be mounted on the outside portion of a window-casing, a suitable length of awning-material connected to the roller intermediate its ends and adapted to be wound and unwound in upper and lower sections, an awning-frame mounted on the casing in an outwardly inclined position and connected to the free end of the lower section to swing it out when the section is unwound, and means for extending the upper section to put the roller under tension.

6. In a device of the class described, a spring-roller adapted to be mounted on the outside of a window-casing, a suitable length of awning-material connected to the roller intermediate its ends and adapted to be wound and unwound in upper and lower sections, an awning-frame pivoted on the casing and connected to the free end of the lower section and adapted to swing out when the section is unwound, and a cord extending from the upper section to the inner side of the casing to put the roller under tension.

7. In a device of the class described, an awning consisting of upper and lower sections, a roller with which the sections wind and unwind, brackets for the roller removably mounted on a window-casing, an awning-frame pivoted on the casing and connected to the free end of the lower awning-section, and hooks on the frame engaging seats on the casing.

8. In a device of the class described, an awning consisting of upper and lower sections, a spring-roller with which the sections wind and unwind, brackets for the roller having slotted bodies detachably engaging headed-projections on a window-casing, an awning-frame on the casing and connected

to the free end of the lower awning-section, hooks on the frame engaging seats on the casings, and means to extend the awning.

9. In a device of the class described, an
5 awning consisting of upper and lower sections, a spring-roller with which the sections wind and unwind, brackets for the roller having slots removably engaging headed
10 projections on a window-casing, a latch on the bracket engaging one of said projections, an awning-frame on the casing and connected to the free end of the lower awning-section, hooks on the frame engaging seats on
15 the casing, and means to extend the awning.
10. In a device of the class described, an awning consisting of upper and lower sec-

tions, a roller with which the sections wind and unwind, brackets for the roller having slots, a latch on each bracket having a recess, headed projections on a window-casing
20 with which the slots engage in such relation that the recess of the latch engages one of said projections, an awning-frame pivoted on the casing and connected to the free end of the lower awning-section, and hooks on
25 the frame engaging seats on the casing.

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

HENRY SMITH.

Witnesses:

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