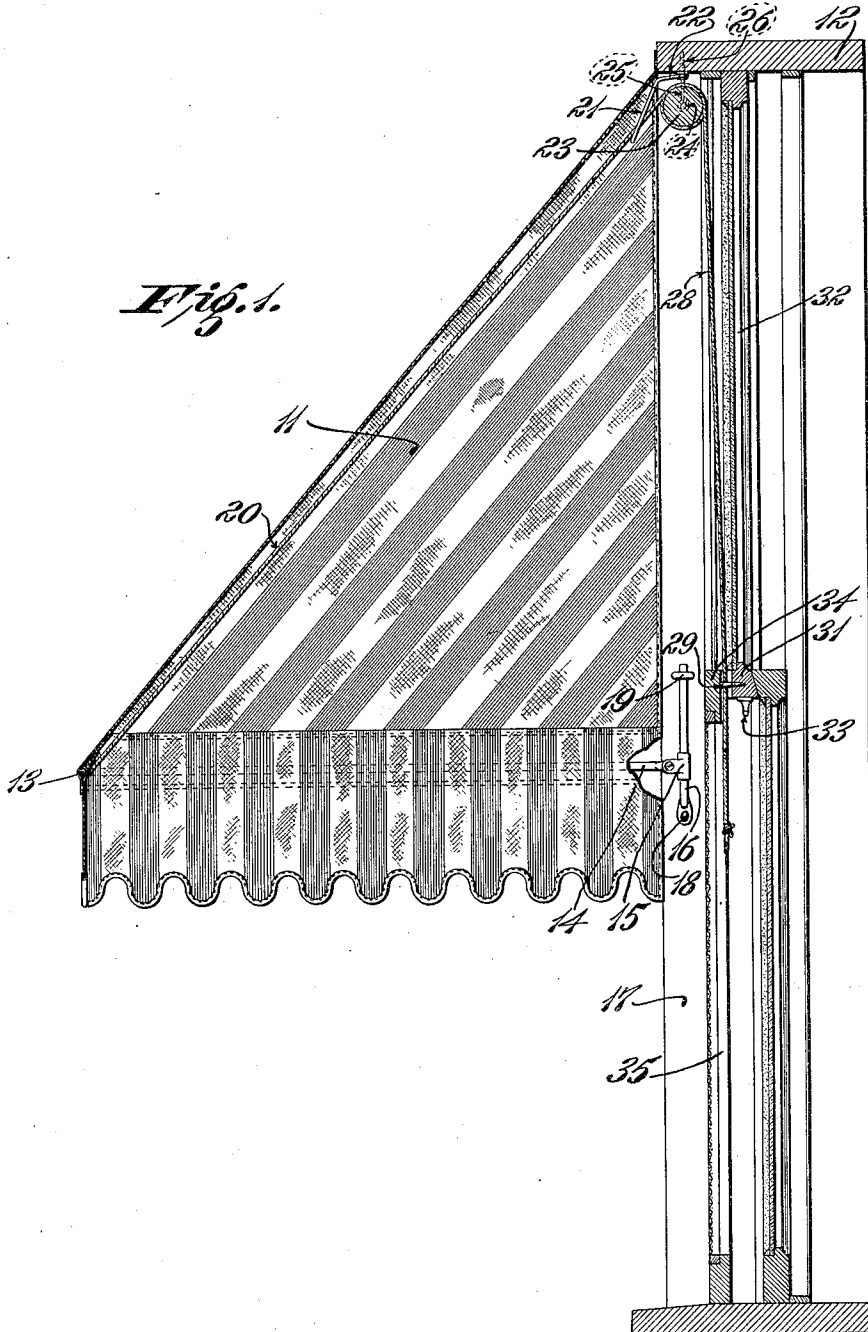


F. A. O'NEAL.
 AWNING FIXTURE.
 APPLICATION FILED MAY 31, 1913.

1,094,465.

Patented Apr. 28, 1914.

2 SHEETS—SHEET 1.



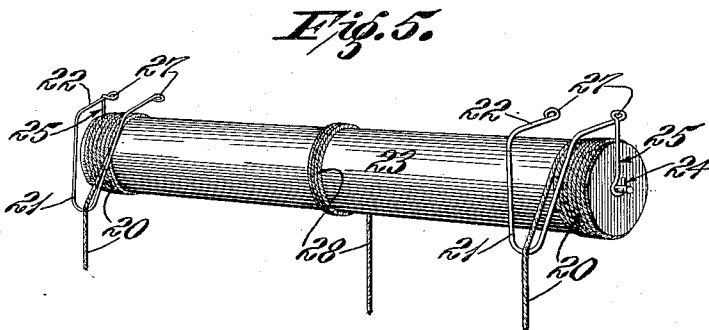
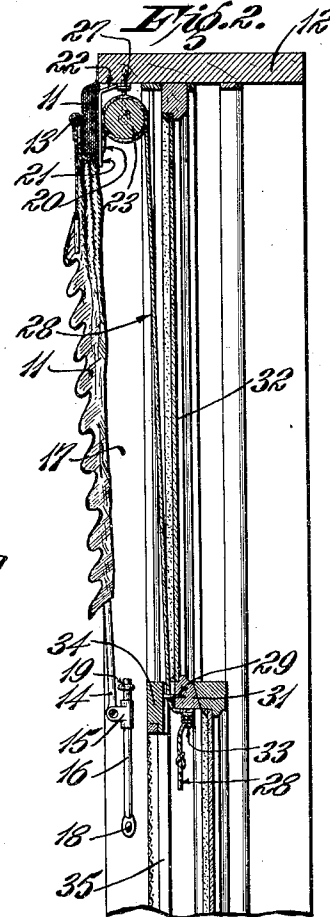
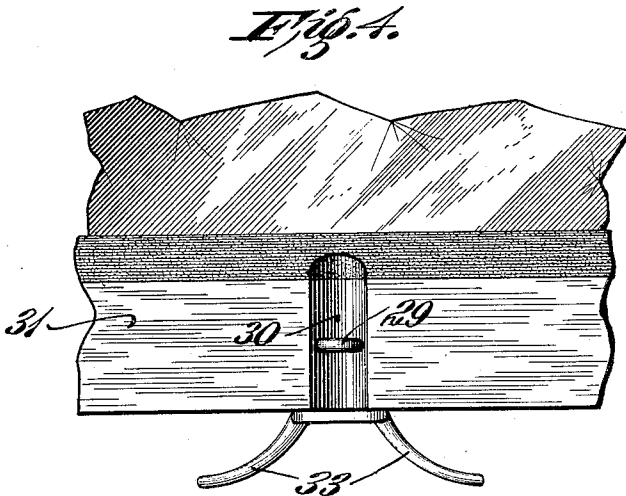
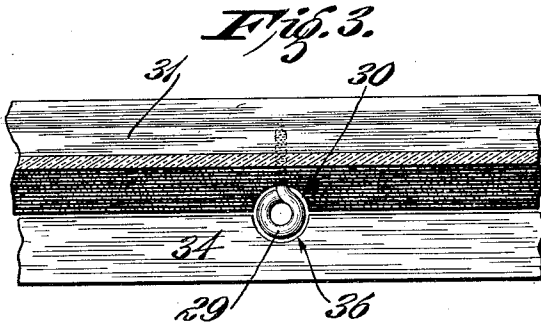
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1,094,465.

Patented Apr. 28, 1914.

2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

FREDERICK A. O'NEAL, OF ST. LOUIS, MISSOURI, ASSIGNOR OF ONE-HALF TO FRANK A. NEAL, OF ST. LOUIS, MISSOURI.

AWNING-FIXTURE.

1,094,465.

Specification of Letters Patent.

Patented Apr. 28, 1914.

Application filed May 31, 1913. Serial No. 770,917.

To all whom it may concern:

Be it known that I, FREDERICK A. O'NEAL, a citizen of the United States, and a resident of the city of St. Louis and State of Missouri, have invented a new and useful Improvement in Awning-Fixtures, of which the following is a specification.

This invention relates to window awnings of the type in which a canvas canopy is fastened along its top edge to the top of the window casing and the bottom edge of the canopy is secured to a three sided frame, the two free ends of which are pivotally mounted on the side frames of the window casing.

The object of the invention is to provide means for easily and quickly raising and lowering the awning from inside the window screen.

A further object of the invention is to provide means for preventing the awning frame from sticking in raised position when the operating cord is released to lower the awning.

A further object of the invention is to provide means controlled by a single operating cord for raising and lowering the awning uniformly and without fouling the suspending cords.

Other objects of the invention, together with the characteristic features thereof, appear in connection with the description of the device illustrated in the accompanying drawings.

What the invention consists in is pointed out with particularity in the appended claims.

In the drawings, in which like characters designate the same parts in the several views,—Figure 1 is a vertical sectional view through a window fitted with an awning fixture embodying this invention, showing the awning lowered; Fig. 2 is a similar view through the upper portion of the window and casing, showing the awning in raised position; Fig. 3 is a plan view of a portion of the lower rail of the upper sash and top of the screen, the glass in the upper sash being shown in section; Fig. 4 is an outside view of the same, the screen being removed; and Fig. 5 is a perspective view of the roller and springs for the suspending and operating cords.

In the device shown in the drawings, the awning canopy 11 is fastened by means of tacks, or other suitable means, along its top

edge to the top plate 12 of the window casing. The lower edges of the canopy are securely fastened to the three sides of the awning frame 13. The two ends 14 of the awning frame are pivoted to sockets 15, which are slidably arranged on the vertical guide rods 16. The guide rods are removably secured to the side frames 17 of the window casing by means of screws 18 and screw eyes 19, or other suitable means. This arrangement of the inner ends of the awning frame enables it to be pulled up when the awning is raised sufficiently to permit its middle portion to clear the top sash, as shown in Fig. 2, thus allowing free entrance of light and air to the top part of the window.

Cords 20 are attached to the awning frame near its outer corners, and these cords are passed through the outwardly and downwardly extending loops 21 of the springs 22 and around the roll 23. The roll is journaled at its ends in the hooks 24 formed by bending up the depending ends 25 of the springs 22. The springs 22 are secured below the top plate 12 of the window casing by means of screws 26, or other suitable means, passing through the eyes 27, which are formed by bending the wire of the springs at their upper ends. An operating cord 28 is wound around the roll in a direction opposite to that in which the cords 20 for suspending the awning frame are wound thereon. The operating cord is led down through a screw-eye 29, horizontally arranged in a vertical groove 30 on the outer side of the lower rail 31 of the upper sash 32 of the window, and is wound around or fastened to a cleat 33 secured to the under side of the window rail 31. The top rail 34 of the window screen 35 is provided with a groove 36 mating with that in the window rail 31 to permit the operating cord to pass freely between the screen and the window sash. By raising the lower window, access is had to the operating cord for raising or lowering the awning without first raising the window screen.

The arrangement of the awning frame, roller and springs is such that when the awning is in raised position the awning canopy is looped up by the suspending cords and pressed against the springs by the frame, thus bending the springs inwardly toward the roll. When the operating cord

is released, the springs throw the canopy and frame outwardly, and thus overcome any tendency of the latter to stick fast in raised position. The spring loops also guide the
 5 suspending cords and prevent their winding off the end of roll or becoming fouled or tangled in the awning canopy. The spring loops also prevent the awning canopy from fouling the roll, as they hold the canopy
 10 away from the roll until the cords are wound up taut.

It is evident from the above description that modifications in the form and arrangement of the parts shown in the drawings
 15 may be made, and the invention is not limited thereto. For example, it is not essential that the cleat for fastening the end of the operating cord shall be secured to the window sash, although this arrangement is
 20 preferred because it enables the awning to be raised for the night by the simple expedient of lowering the upper sash for ventilation.

I claim as my invention:

25 1. An operating device for an awning comprising a frame pivoted to the window casing, a roll provided with an operating cord wound thereon, and springs adjacent to said roll adapted to be engaged by said
 30 frame in raised position, whereby said frame is repelled from raised position upon the release of said cord.

2. An operating device for an awning comprising a frame pivoted to the window
 35 casing, a roll provided with an operating cord wound thereon, frame suspending cords wound on said roll in the direction opposite to the direction of winding of said operating cord, and springs adjacent to said
 40 roll adapted to be engaged by said frame in raised position and to repel the latter upon the unwinding of said suspending cords.

3. An operating device for an awning comprising a frame pivoted to the window
 45 casing, a roll provided with an operating cord wound thereon, frame suspending cords wound on said roll in the direction opposite to the direction of winding of said operating

cord, and springs adjacent to said roll adapted to be engaged and flexed by said frame
 50 in raised position, said springs having depending loops through which said suspending cords are passed, whereby said awning is supported out of contact with said roll and kept from sticking in raised position. 55

4. A spring-wire suspending means for an awning fixture roll, said spring-wire being bent to form an end bearing for said roll having guide loops through which the awning suspending cords may be passed. 60

5. The combination with an awning fixture of an operating cord therefor, a window sash grooved on its outer side and provided with a cleat on its under side adjacent to said groove to which said operating cord
 65 may be fastened.

6. The combination with an awning fixture of an operating cord therefor, a window sash grooved on its outer side and provided with a cleat on its under side adjacent to
 70 said groove to which said operating cord may be fastened, and a screw-eye horizontally arranged on the outside of said sash with its eye in alinement with the groove in said sash, said screw-eye being adapted to
 75 receive said cord whereby it may be guided and retained in said groove.

7. In combination with a window casing, an awning frame pivoted to said casing, a rotatable member secured to the top of said
 85 casing, means for raising said frame comprising a cord passing around said rotatable member, and a journal bearing member rigidly secured to said casing adjacent to said rotatable member and having a spring
 85 portion projecting in front thereof, said spring portion being located in proximity to said cord, whereby said awning frame is prevented from sticking in raised position.

Signed at St. Louis, Mo., this 27th day of
 May, 1913. 90

FREDERICK A. O'NEAL.

Witnesses:

A. M. HOLCOMBE,
 M. A. SHELTON.