Dec. 5, 1967 D. C. SANTO 3,356,329

ADJUSTABLE AWNING SUPPORT

Filed May 10, 1966

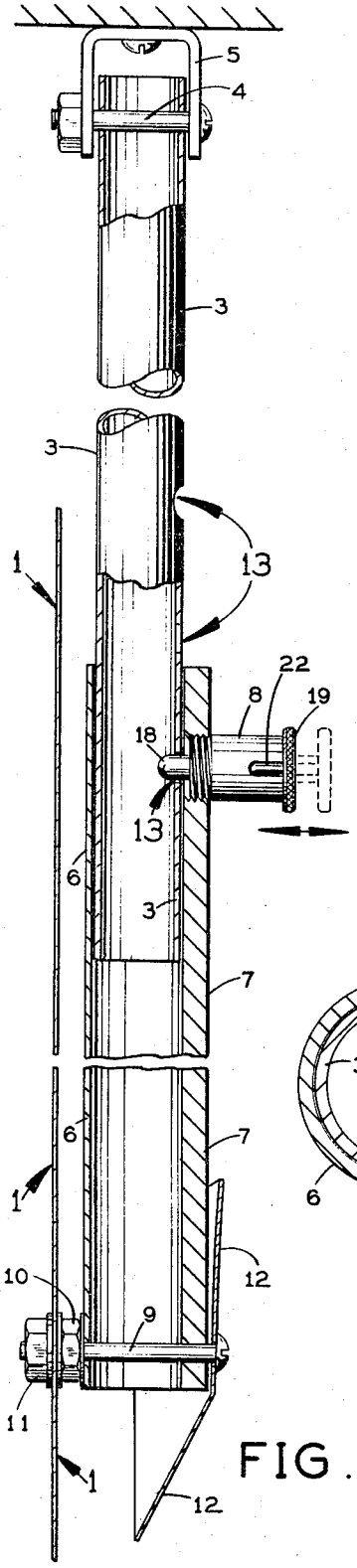

FIG. 2

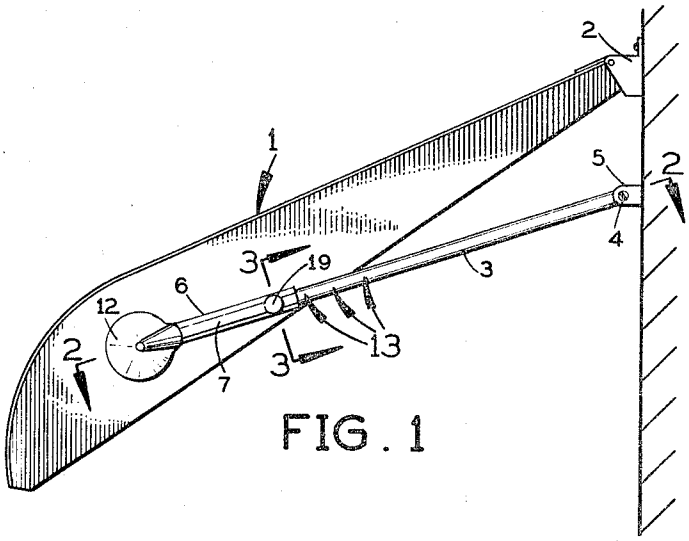

FIG. 1

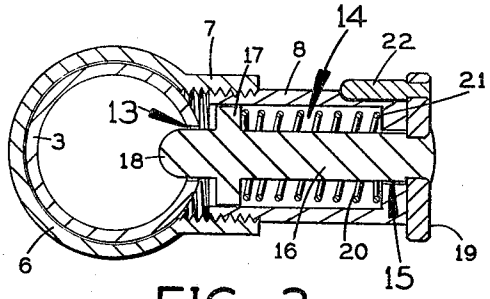

FIG. 3

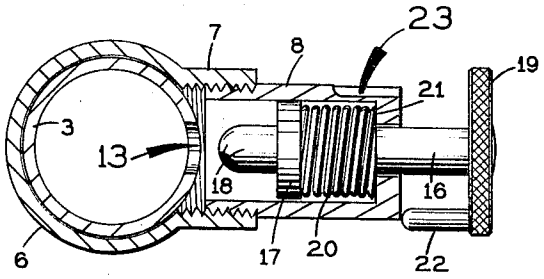

FIG. 4

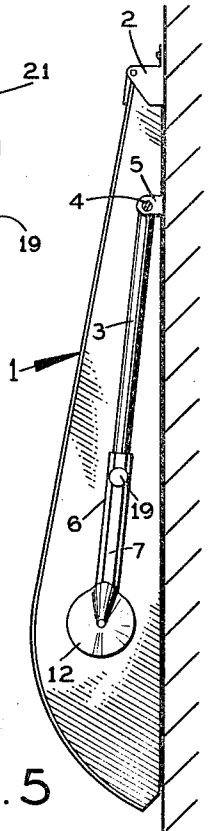

FIG. 5

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ADJUSTABLE AWNING SUPPORT

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This invention relates in general to awnings and more particularly to manually adjustable supports for pivoted window awnings for manually positioning same into a predetermined number of shade positions or closed over a window for storm protection.

Prior adjustable supports for awnings in many circumstances required the use of tools and further, the quick adjustable detent plunger type require two persons to simultaneously operate the plungers at opposite sides of the awnings when the supports are separated a distance out of reach for operation by one person.

A principal object of the invention is the provision of a telescopic awning support which may be manually locked in a predetermined number of selected shade positions by a spring plunger means including means for manually securing the plunger in an unlocked position, thus enabling one person to sequentially operate a pair of supports at each opposite end of an awning regardless of the width of same, which construction is a principal object of the invention.

These and other objects and advantages in one embodiment of the invention are described and shown in the appended specification and drawing, in which:

FIG. 1 is a side elevation of a typical pivoted rigid awning locked in a selected shade position.

FIG. 2 is an enlarged fragmentary cross sectional view taken through section line 2—2, FIG. 1.

FIG. 3 is an enlarged cross sectional view taken through section line 3—3, FIG. 1, showing elements in locked position.

FIG. 4 is the same as FIG. 3 showing the elements shown in FIG. 3 in unlocked position.

FIG. 5 illustrates the awning shown in FIG. 1 in closed position.

The awning assembly **1**, of which only one side view is shown in FIG. 1, is pivoted for movement about a horizontal axis on well known bracket means **2** secured above the window to be shaded or covered. The awning brace or support assembly to be hereinafter described is shown on one side of the awning only since the support on the opposite side is identical to that shown.

A tubular metal support arm **3** is pivoted on a bolt **4** in clevis **5** with the latter secured to the wall by well known means close to the path of movement of the side of the awning, as shown in FIGS. 1 and 2.

Referring to FIGS. 1 and 2, a tubular metal socket member **6** has a longitudinal bore therethrough for slidably retaining the arm **3** in telescopic relation. The member **6** has an integral longitudinal rib **7** along one side thereof for reinforcing purposes and providing for the insertion of a threaded lock bushing or housing **8** in the upper end portion thereof. The lower end of member **6** is pivotally retained to the side of awning **1** by a bolt **9** retained in the awning by a pair of nuts **10** and **11** with suitable washers therebetween. A circular ornamental disc **12** is formed to substantially cover the pivotal junction of the member **6** and the open end thereof, as shown in FIGS. 1, 2, and 5.

Referring to FIGS. 1, 2, and 3, a plurality of spaced cavities or holes **13**, as shown, are provided in the side of arm **3**, for adjustment purposes, to be hereinafter described. The bushing **8** secured in rib **7** has a coaxial bore **14** therein opening to the inner end thereof and a coaxial smaller bore **15** in the outer end thereof for retaining a

lock plunger **16** which includes an integral flange **17**, which plunger terminates with the inner end **18** thereof pointed or shaped substantially spherical, as shown.

Referring to FIGS. 3 and 4, a knurled knob **19** is riveted on the shouldered outer end of plunger **16** for manually retracting and rotating the latter. A compression spring **20** is positioned under tension in bore **14** against the flange **17** and a shoulder **21** at the outer end of the bore **14** for normally urging the plunger **16** into locked position, as shown in FIG. 3.

A lock pin **22** is shoulder riveted off-center in the disc **19** with the axis thereof parallel the axis of the plunger, as shown. A groove or recess **23** parallel with the axis of the plunger of bushing **8** is positioned to slidably receive pin **22** when the plunger **16** is in its inner locked position, as shown in FIG. 3.

It is now apparent that when the knob **19** is pulled outward, as illustrated by arrow in FIG. 2, against the restraining action of spring **20** and rotated into the position shown in FIG. 4, and released, the pin **22** will engage the outer surface of bushing **8** and prevent the spring from urging the plunger inward into lock position.

It is thus apparent that to adjust the awning to a predetermined shade or closed position, each plunger **16** in opposite sides of the awning are first withdrawn and locked into the idle position shown in FIG. 4. Then the awning may be moved to a desired position about its pivotal support in bracket means **2** and then one of the knobs **19** rotated to permit the inner end **18** of its plunger **16** to enter one of the selected holes **13**. Sequentially, the knob **19** in the opposite side of the awning will be operated in the same manner to release its plunger into a corresponding hole **13**. It is now apparent that one person can quickly and positively position the awning in each of several shade positions or lock the awning in closed position over a window, as shown in FIG. 5.

It is apparent that in certain particular applications, the support assembly may be anchored above the awning rather than below the pivotal brackets **2**, as shown.

It is understood that certain modifications in the above construction, utilizing the features described, are intended to come within the scope of the appended claims.

Having described my invention, I claim:

1. An adjustable support means for an awning pivotally secured to a wall along the inner end thereof for vertical movement about a horizontal axis comprising an awning, a straight cylindrical support member pivotally secured to said wall a predetermined distance below said axis for vertical movement adjacent one side of said awning,

a plurality of cavities in predetermined spaced relation along one side of said support member,

an elongated socket means pivotally secured at the outer end portion thereof to the said one side of said awning in planar relation with said member for movement about an axis parallel said horizontal axis,

said socket means having an axial bore therein for slidably retaining said support member in telescopic relation,

a plunger housing in the opposite end portion of said socket means having a bore therein normal to and opening into the said axial bore,

a plunger slidably retained in said bore for rotation and axial reciprocation from a locked position with the inner end thereof in engagement with any selected one of said cavities to a withdrawn idle position for movement in a path above said cavities,

spring means biased between said housing and said plunger for urging the latter into said locked position,

said plunger having a knob secured on its outer end for the manual retraction and rotation thereof,

said housing having a plunger release recess therein spaced from and parallel the axis of the bore therein,

a projection on the inner side of said knob adapted to slidably engage said recess when said projection is rotated by said knob in register therewith for permitting said plunger to engage a selected cavity and locking said awning in a vertical position corresponding to each of said cavities whereby the awning may be manually re-positioned in a predetermined shading position or closed when said plunger is withdrawn by said knob and rotated to move said projection out of register with said recess and against said housing for holding said plunger in said idle position.

2. An adjustable support for an awning secured to a wall by horizontal pivot means along the inner end thereof comprising an awning, a straight cylindrical support member pivotally secured to said wall for vertical movement about a horizontal axis and positioned adjacent one side of said awning,

a predetermined plurality of spaced cavities in a straight row along one side of said support member,

an elongated socket means pivotally secured at the outer end portion thereof to the said side of said awning for movement about an axis parallel the said horizontal axis,

said socket means having a longitudinal bore therein for slidably retaining said support member in telescopic relation,

said socket means having a radial lock bore in the outer end portion thereof opening into said longitudinal bore and positionable in radial alignment with said cavities,

a plunger housing secured in radial alignment to said socket means over said lock bore,

a plunger sildably retained in said housing for rotation and reciprocation from a locked position with the inner end thereof in engagement with any selected one of said cavities to a withdrawn idle position for movement in a path above said cavities,

spring means biased between said housing and said plunger for urging the latter into said locked position,

said plunger having a knob means secured on its outer end for the manual rotation and retraction thereof,

a lock-release means cooperatively related to said knob means and said housing respectively for permitting said plunger to move inward and engage any selected one of said cavities when said knob means is turned to a predetermined lock position and for holding said plunger in said idle position when withdrawn and rotated a predetermined angle from said lock position.

3. The construction recited in claim 2 wherein said lock release means comprises a recess in said housing in predetermined spaced relation and parallel the axis of said lock bore,

a projection extending from the under side of said knob means positioned for registration with said recess when rotated in register therewith by said knob means for permitting the inward movement of said plunger for engaging the latter with any selected one of said cavities and for holding said plunger from engaging said cavities when withdrawn and said projection manually rotated out of register with said recess by said knob means.

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