S. T. McCLARREN.

WINDOW FIXTURE.

APPLICATION FILED MAR. 9, 1918.

1,264,828.

Patented Apr. 30, 1918.

2 SHEETS—SHEET 1.

FIG. 1

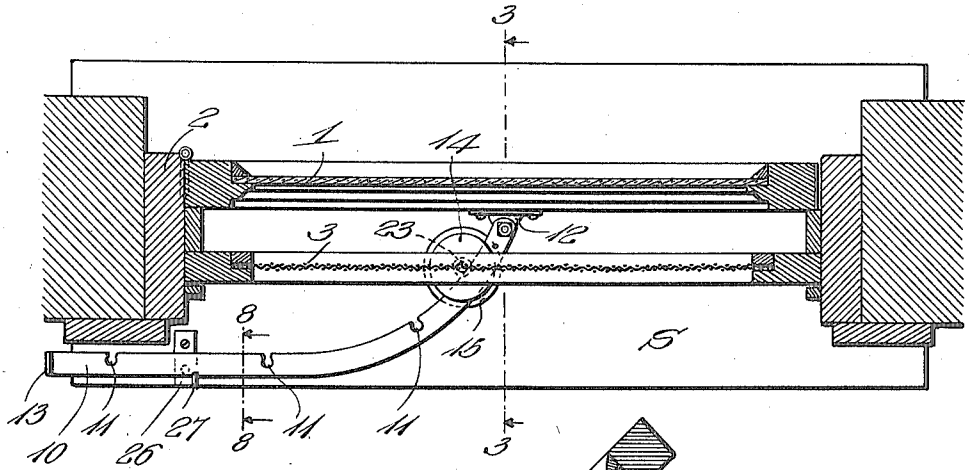



FIG. 2

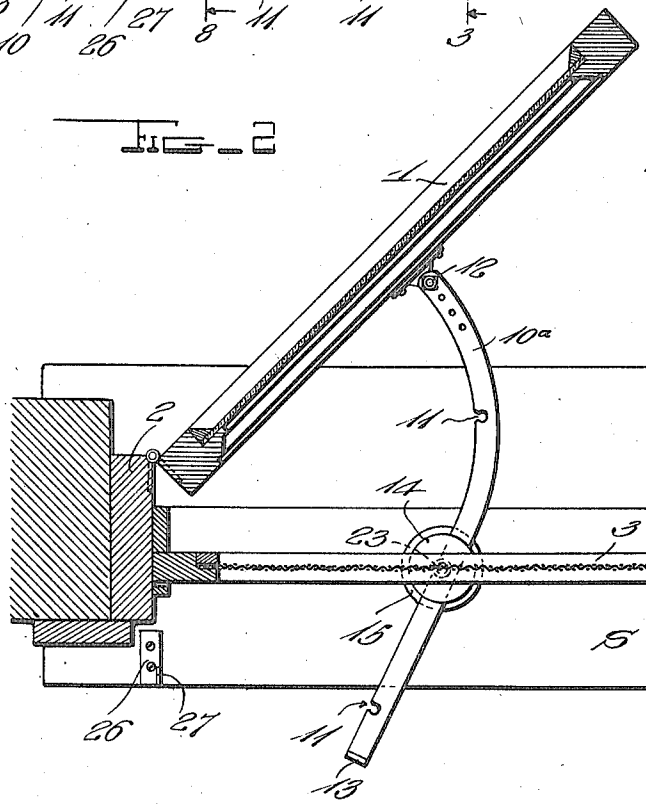
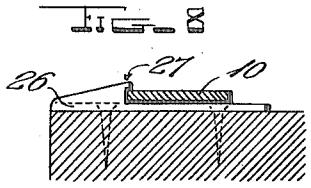



FIG. 3




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2 SHEETS—SHEET 2.

FIG. 3

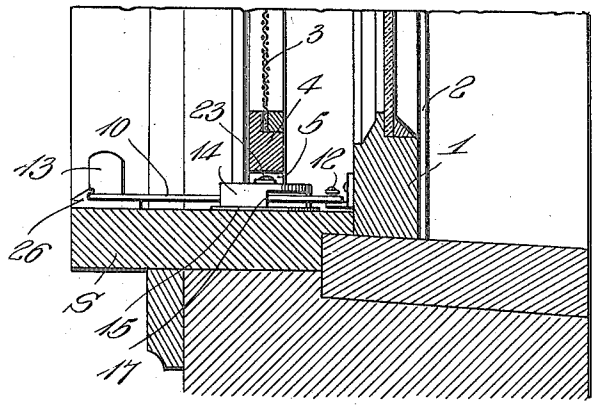



FIG. 4

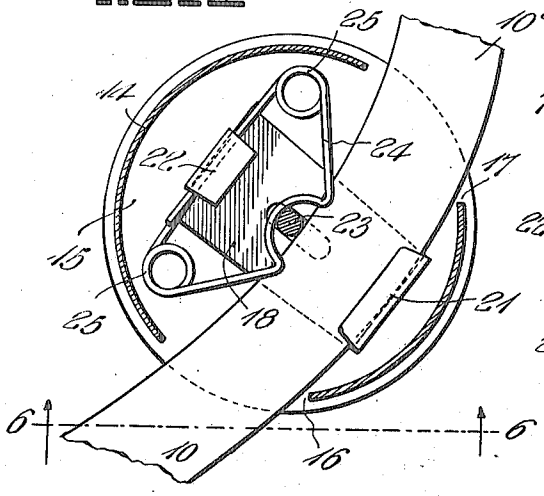
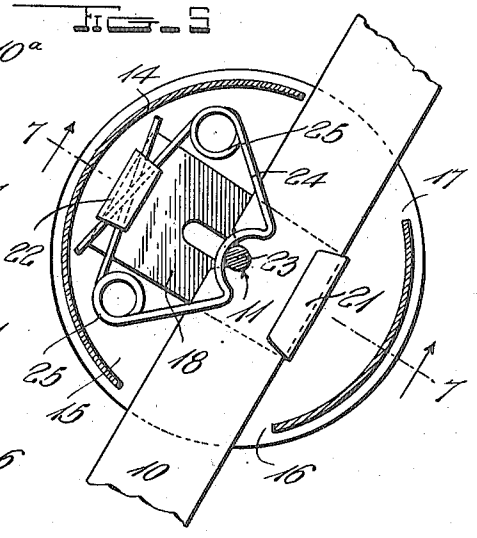



FIG. 5



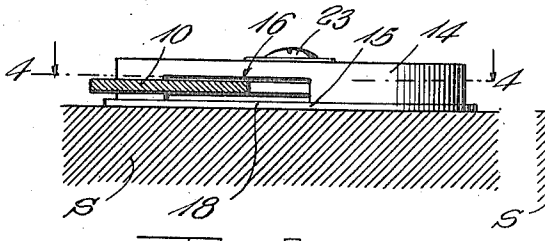
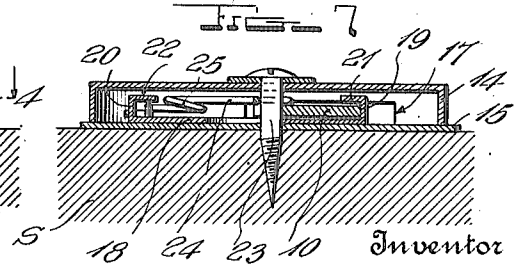




FIG. 6

FIG. 7




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# UNITED STATES PATENT OFFICE.

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## WINDOW-FIXTURE.

1,264,828. Specification of Letters Patent. Patented Apr. 30, 1918.

Application filed March 9, 1918. Serial No. 221,517.

*To all whom it may concern:*

Be it known that I, SAMUEL T. McCLARREN, a citizen of the United States, residing at St. Petersburg, in the county of Pinellas and State of Florida, have invented certain new and useful Improvements in Window-Fixtures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to window fixtures, and it relates more particularly to an improved casement window holder and adjuster.

One of the objects of this invention is to simplify the construction and reduce the cost of devices of this character in general, and especially to improve upon the "casement-window-operating device" described and claimed in my Patent No. 1,179,640, patented April 18, 1916.

Another object of this invention is to provide for obtaining the maximum convenience in applying the holder to the window frame and sash;

Another object is to reduce the defacement of the window frame and sash to the minimum;

Another object is to protect the working parts of the device from foreign matter and from the interference of children and others;

Another object is to provide a device of this character that is ornamental and easily cleaned and polished;

Another object is to provide a device which combines the foregoing advantages with strength, durability, reliability and thorough practicability.

Other objects and advantages may become apparent to persons who read the following details of description in connection with the appended drawings, in which—

Figure 1 is a horizontal sectional view through a window frame, sash and screen, disclosing the present invention in the operative position for holding the window closed;

Fig. 2 is a view similar to Fig. 1, disclosing the device in its operative position for holding the window at a position between its wide open and closed positions.

Fig. 3 is a vertical sectional view through the window frame, sash and screen, disclosing the window holder in end elevation.

The other figures are enlarged views, and Fig. 4 is a horizontal sectional view taken along the line 4—4 of Fig. 6.

Fig. 5 is a view similar to Fig. 4, except that the parts are in a different relative position of adjustment;

Fig. 6 is a vertical sectional view along the line 6—6 of Fig. 4;

Fig. 7 is a vertical sectional view along the line 7—7 of Fig. 5, and

Fig. 8 is a detail view illustrating a catch which coöperates with the operating bar and other elements for holding the window in its closed position.

Referring to these drawings in detail in which similar characters correspond with similar parts throughout the several views, a casement window 1 is shown hinged to the jamb 2 in the usual manner.

A screen 3 is also mounted in the window frame in front of the outwardly opening window 1 and which is provided in the lower frame member 4 thereof with a recess 5 through which the sash actuating device constituting this invention extends.

The operating and holding device which constitutes this invention comprises a lever 10 which comprises a strip or bar of metal curved at one end to form an attaching arm $10^a$. This lever is provided on its inner edge with a plurality of longitudinally spaced notches for a purpose to be described. The free end of this lever arm $10^a$ is pivotally connected with the window or sash 1 by means of a combined pivot and securing member 12. The free end of this lever 10 is preferably provided with an operating handle or knob 13 to provide for the ready grasping and operation of the said lever. Secured to the window sill S under the screen 3 is a casing or housing 14 which is seated on a circular base plate 15 having an aperture through its center and being secured to the sill S by appropriate means. The casing or housing 14 is notched at 16 and 17 to allow the lever or bar 10 to slide therethrough. Within the housing 14 is disposed a centrally apertured or slotted plate 18 provided with a shoulder 19 at one end and a shoulder 20 at the other end. The shoulders 19 and 20 are provided with flanges 21 and 22 respectively, and the bar 10 is confined between the flange 21 and the body of the plate 18. A combined securing member detent and spring-resisting element 23 shown as a screen in the present instance, is anchored in the window sill and extends

through the central aperture of the base plate 15, through the central aperture of the plate 18 and through a central aperture in the top of the housing 14. As a detent, this element engages with the notches of the bar 10 so as to hold the window sash in any of its several adjustable positions between the closed and wide-open positions, and also at its wide-open position. In order that the bar 10 may be yieldingly held in engagement with the element 23, I provide a spring 24 of the peculiar construction hereinafter described. This spring is compressed between the element 23 and the shoulder 20 and is confined in engagement with the shoulder by means of the flange 22. It will be seen, by an observation of Figs. 4 and 5 that when the element 23 registers with one of the notches 11, the spring 24 moves the plate 18 so that its shoulder 19 presses the notch 11 into engagement with the detent 23 and thus yieldingly retains such engagement until it is released by a pressure in opposition to that of the spring.

The spring 24 is preferably formed of spring wire, and a length of wire is bent at its middle portion to form an arcuate seat in the element 23, and from this arcuate seat the end portions of wire extend and are each formed into a helical coil 25, and beyond these coils the ends of wire are lapped upon one another so that they cross one another when the spring is expanded, as shown in Fig. 5.

A detaining member 26 is secured to the sill S and is provided with a shoulder 27 to coöperate with the elements 23 and 12 for holding the window sash 1 tightly closed.

When the bar 10 is freed from the detent 26 and moved longitudinally through the housing 14, it will be seen that its angle with relation to the sill S changes at every position, and that the housing 14 rotates about the pivot 23 in accordance with the varying positions of the bar 10.

From the foregoing description, it will be obvious that should the window be left open without engaging one of the notches of the lever 10 with the element 23 and should the sash 1 swing either outwardly or inwardly under the pressure of wind or other influence, it would be immediately locked when the first notch in the bar 10 comes opposite to the screw 23, and thus every possibility of the sash being blown back and forth and broken is prevented.

Although I have described this embodiment of my invention very minutely, it is not intended to limit the invention to these exact details of construction and arrangement of parts, but I am entitled to make such minor changes that do not depart from the inventive idea disclosed in the appended claims.

What I claim as my invention is:

1. A casement window holder comprising a bar connected to a window sash and provided with notches, a plate provided with shoulders and with a slot between said shoulders, a spring, and a combined securing and guiding and spring-resisting element extending through said slot, said bar being mounted to slide between said element and one of said shoulders, said spring being compressed between said element and the other of said shoulders and thereby constantly pressing said bar against said element, said element being capable of entering said notches alternately so as to coöperate with said bar for holding the sash in any one of several positions.

2. A casement window holder comprising a bar connected to a window sash and provided with notches, a plate provided with shoulders and with a slot between said shoulders and with a flange on each of said shoulders, a spring, and a combined securing and guiding and spring-resisting element extending through said slot, said bar being mounted to slide between said element and one of said shoulders and between one of said flanges and the body of said plate, said spring being compressed between said element and the other of said shoulders and thereby constantly pressing said bar against said element, said spring being confined between the other of said flanges and the body of said plate, said element being capable of entering said notches alternately so as to hold the sash in any one of several positions.

3. A casement window holder comprising a bar connected to a window sash and provided with notches, a plate provided with shoulders and with a slot between said shoulders, a spring, a rotary housing containing said plate and spring and having said bar slidable longitudinally therethrough and a combined securing and guiding and spring-resisting element extending through said slot, said bar being mounted to slide between said element and one of said shoulders, said spring being compressed between said element and the other of said shoulders and thereby constantly pressing said bar against said element, said element constituting an anchor and a pivot for said rotary housing and being capable of entering said notches alternately so as to coöperate with said bar for holding the sash in any one of several positions.

In testimony whereof I have hereunto set my hand.

SAMUEL T. McCLARREN.