

G. E. DONNELL.
 RETAINING DEVICE FOR BLIND SLATS.
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1,050,010.

Patented Jan. 7, 1913.

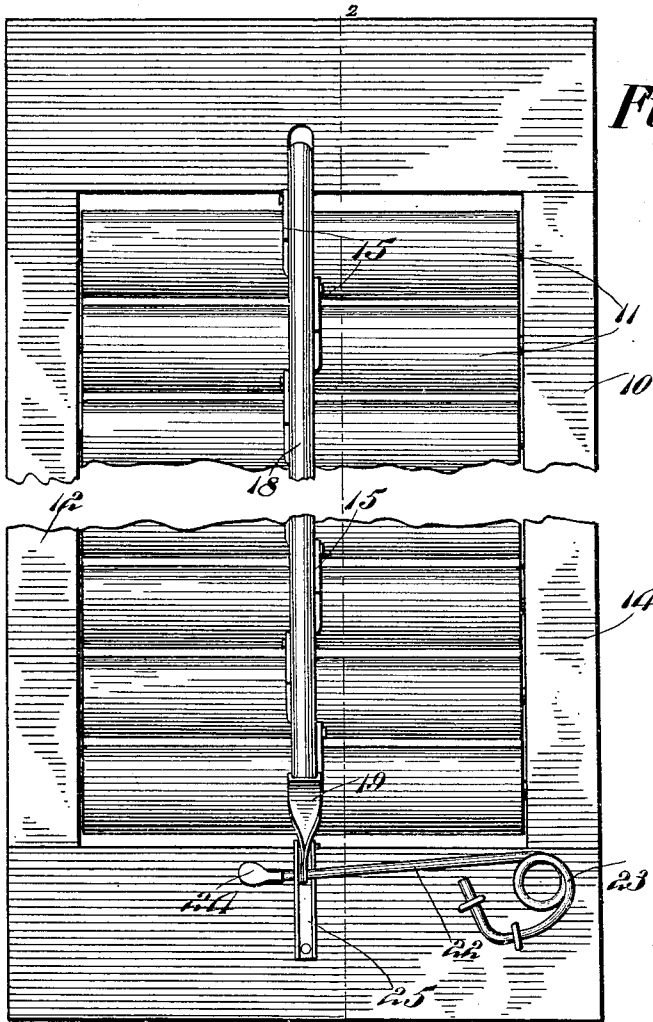


Fig. 1.

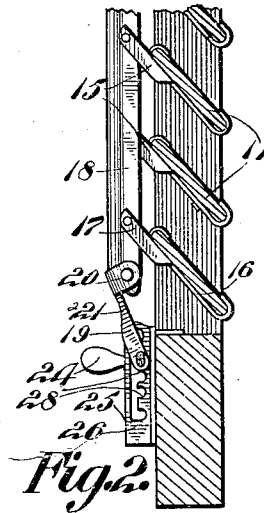
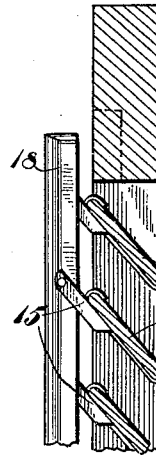


Fig. 2.

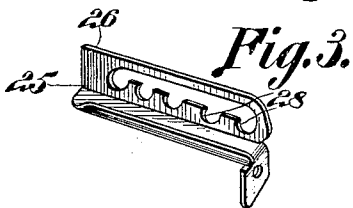


Fig. 3.

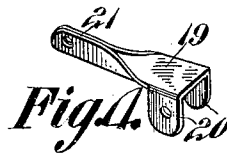


Fig. 4.

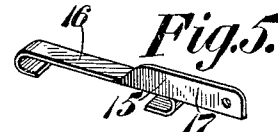


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

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RETAINING DEVICE FOR BLIND-SLATS.

1,050,010.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed April 19, 1912. Serial No. 691,943.

To all whom it may concern:

Be it known that I, GEORGE E. DONNELL, a citizen of the United States, residing at Chapel Hill, in the county of Orange and State of North Carolina, have invented a new and useful Retaining Device for Blind-Slats, of which the following is a specification.

This invention relates to operating mechanism for Venetian blinds.

The primary object of the invention is to provide a mechanism for adjusting the blind slats at various angles and maintaining the same at the angle to which they are set.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings—Figure 1 is a front elevation. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a detail view of the rack which is secured to the lower rail of the shutter. Fig. 4 is a detail view of the arm which is attached to the blind slat operating bar. Fig. 5 is a detail view of one of the arms which connect the blind slat to the bar.

In the drawings, 10 designates the frame of the shutter, the blind slats 11 being pivotally supported between the stiles 12 and 14. A plate 15 is secured to each of the blind slats, this plate is provided with the curved terminals, which embrace the slat, the plate being sufficiently resilient to allow the curved terminals to be slipped over the edges of the slat. The plate is formed with the off-set edge 17 which is secured to the bar 18, plates being connected to either side of the bar. The arm 19 is pivotally connected to the bar 17, said arm being formed with apertured ears 20 which embrace the bar. The arm 19 is formed with the off-set

edge 21 which is apertured to receive a spring 22 which is formed with a coil 23 and which is secured to the lower rail of the shutter, the spring being provided with a knob 24 by means of which the same is actuated. It will be noted that as the spring is actuated, the bar 17 will be raised and lowered to open or close the slats. The tendency of the spring 22 is to maintain the bar in a raised position and the slats closed. When it is desired to open the slats, the spring is actuated to lower the bar.

The spring 22 is held in any desired position to regulate the degree to which the slats are opened by the plate 25 which is formed with the sloping offset edge 26, which receives the spring 22, the plate being formed with notches 28 which receive the spring and hold the same at any desired height.

The many advantages of a construction of this character will be clearly apparent as it will be noted that the slats may be retained at any desired angle, the same being readily adjusted and maintained in their adjusted positions.

What is claimed is:

An operating mechanism for window blinds including a bar, said bar being connected to the blind slat, an arm pivotally connected to said bar, a spring having an operative connection with said arm, a plate secured to the bottom rail of the shutter which supports the blind slat, said plate being formed with an off-set which embraces one edge of said rail, one of the longitudinal edges of said plate being struck up at right angles to the plate, said edge being slotted and notched to form a rack which receives said spring, the other edge of said plate being off-set to form a guide for said spring.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

GEORGE E. DONNELL.

Witnesses:

W. CLARENCE LLOYD,
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