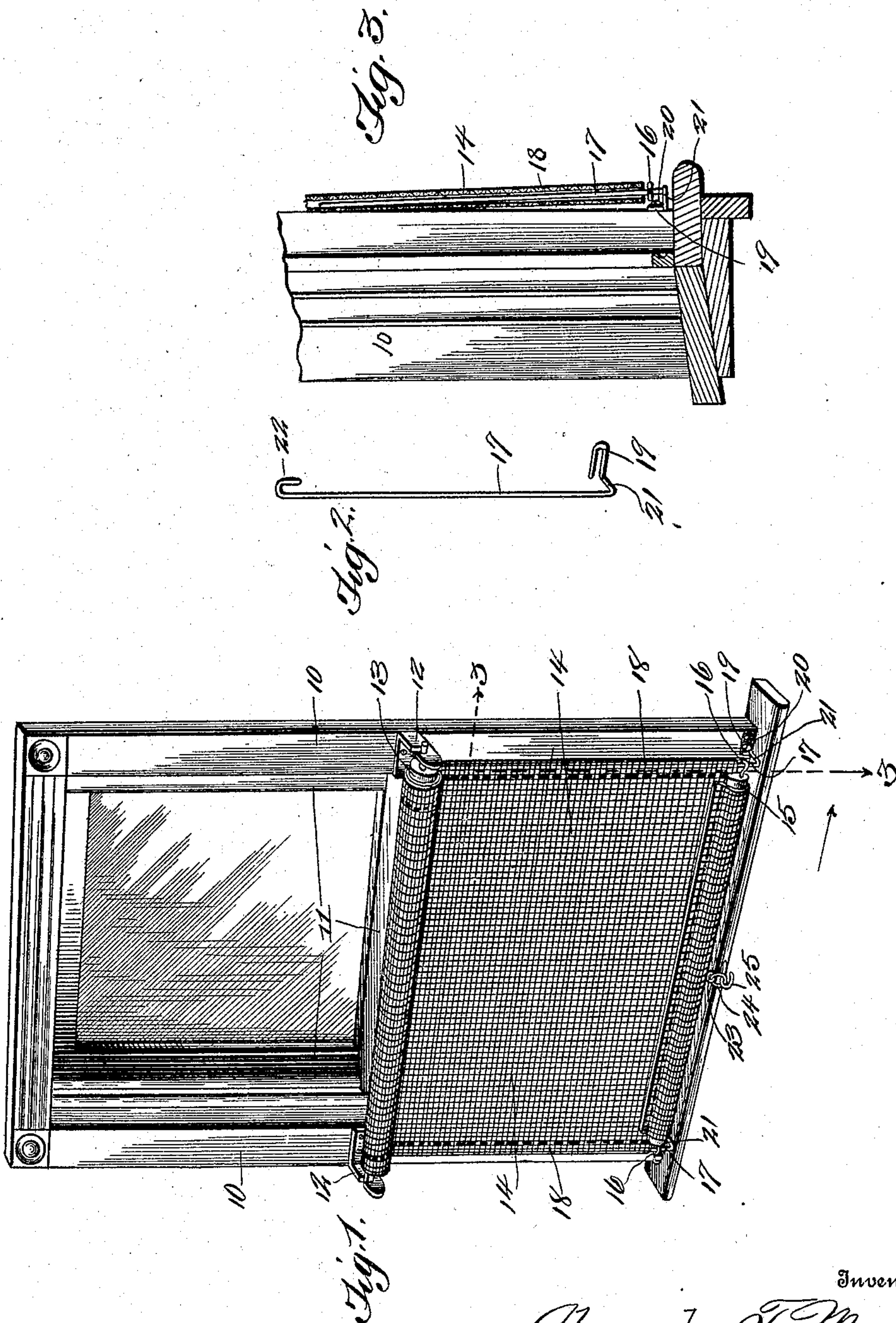


A. T. MOORE.
WINDOW SCREEN.
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911,741.

Patented Feb. 9, 1909.



Witnesses

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ALEXANDER T. MOORE, OF NEW ORLEANS, LOUISIANA.

WINDOW-SCREEN.

No. 911,741.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed June 25, 1908. Serial No. 440,251.

To all whom it may concern:

Be it known that I, ALEXANDER T. MOORE, citizen of the United States, residing at New Orleans, parish of Orleans, State of Louisiana, have invented certain new and useful Improvements in Window-Screens, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to window screens and particularly to guiding and holding means for a flexible rolling screen of that character.

The invention has for an object to provide a novel and improved construction of guide rod secured at one end to the window frame and connected to the free end of a flexible screen mounted upon a spring roller to guide and limit its upward travel under the roller tension.

Other and further objects and advantages of the invention will be hereinafter set forth and novel features thereof defined by the appended claims.

In the drawing—Figure 1 is a perspective of the invention applied; Fig. 2 a detail perspective of the guide rod and bar; and Fig. 3 is a detail vertical section, on line 3—3 of Fig. 1.

Like numerals of reference refer to like parts in the several figures of the drawing.

The numeral 10 designates the window frame and 11 the sash mounted therein in the usual manner. Upon this frame supporting brackets 12 are disposed at opposite sides and a spring shade roller 13 of ordinary construction mounted therein. A flexible screen 14 which may be of any desired fabric is mounted upon this roller and provided at its free end with a crossbar 15 having at each end a guiding eye 16 adapted to embrace a guide rod 17 mounted at each side of the window frame. The screen is also provided at each side edge with a loop or hem 18 through which this rod is threaded.

This guide rod 17 is formed at its lower end with an open loop 19 adapted to receive retaining means 20 and is elongated to permit lateral adjustment of the rod. The rod is formed of spring material and connected to this securing loop by an angularly disposed portion 21 which slightly removes the lower end of the rod from the frame in order that the upper free end of the rod may bear against the frame under tension. This free

end is formed with a hook 22 turned laterally from the screen so as to engage the eye 16 of the cross bar and thus limit the upward travel of the screen under the tension of the spring roller. The cross bar 15 is provided with an eye 23 carrying a ring 24 which is adapted to engage a hook 25 disposed beneath the bar on the window frame to thus retain the screen in position for use when the window sash is raised.

The screen when mounted upon the frame as shown is opposite the midrails of the sash and thus does not obscure the view or form any obstruction in the use of the window. It may however be mounted in any desired position. When the lower sash is raised it is only necessary to unroll the screen in order to protect the open space from the entrance of flies or insects and the spring tension of the guide rods holds the sides of the screen in contact with the window frame to form a tight closure. The lateral adjustment of the rods applies the desired side adjustment and tension. In the event of the screen being accidentally released the hooks at the free ends of the rods prevent the screen from wrapping around the roller and releasing the spring tension thereof as the hooks upon the rod engage the eyes of the cross bar so that the screen may be instantly raised without danger of injury. This bar may also be readily disengaged from the rod by passing the eyes over the hooks at the ends of the rod when the latter are withdrawn from contact with the frame.

The invention therefore presents a simple, efficient and economically constructed form of guide and retaining device for a rolling screen which may be disposed in any desired position upon a window frame relative to the sash therein.

Having described my invention and set forth its merits what I claim and desire to secure by Letters Patent is:—

1. In a window screen, a roller, a flexible screen mounted thereon and provided with a cross bar at its free end, guide rods secured at their lower ends and having free upper ends provided with engaging devices, and means carried by the ends of said bar to traverse said rods and contact with said devices.

2. In a window screen, a roller, a flexible screen mounted thereon and provided with a cross bar at its free end, guide rods secured at

their lower ends and having hooked upper free ends, and eyes carried by said cross bar to embrace said rods.

3. In a window screen, a roller, a flexible
5 screen mounted thereon and provided with a cross bar at its free end, spring guide rods secured to the window frame at their lower ends and contacting therewith at their upper free ends, and eyes carried by said bar to
10 embrace said rod.

4. In a window screen, a roller, a flexible screen mounted thereon, and guide rods connected to said screen and having a lateral securing eye at one end and an opposite
15 hooked free end.

5. In a window screen, a roller, a flexible screen mounted thereon and provided with a cross bar at its free end, guide rods secured at their lower ends and having free upper
20 ends formed with engaging devices to limit the travel of said bar, a hook upon the window frame beneath said bar and having an inturned end, and a pivoted ring carried by said bar to engage the hook.

25 6. In a window screen, supporting brackets upon the window frame, a spring roller

mounted therein, a fabric screen upon said roller, laterally adjustable guide rods at opposite sides of said frame and having free upper ends with a stop device thereon, and a
30 cross bar on said screen having eyes embracing said rods.

7. In a window screen, supporting brackets upon the window frame, a spring roller
35 mounted therein, a fabric screen upon said roller having guiding means at its side edges, and spring guide rods inserted in said means and secured at their lower ends to provide free upper ends in yielding contact with the window frame.

8. In a window screen, a roller, a flexible screen mounted thereon, and guide rods for said screen having at one end a laterally
40 disposed open loop connected to the rod by an angular portion and at the opposite end provided with a laterally disposed hook.

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

ALEXANDER T. MOORE.

Witnesses:

H. BENTIN,

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