R. A. JOHNSON.

WINDOW SCREEN.

APPLICATION FILED JULY 20, 1918.

1,317,579. Patented Sept. 30, 1919.

Fig. 1.

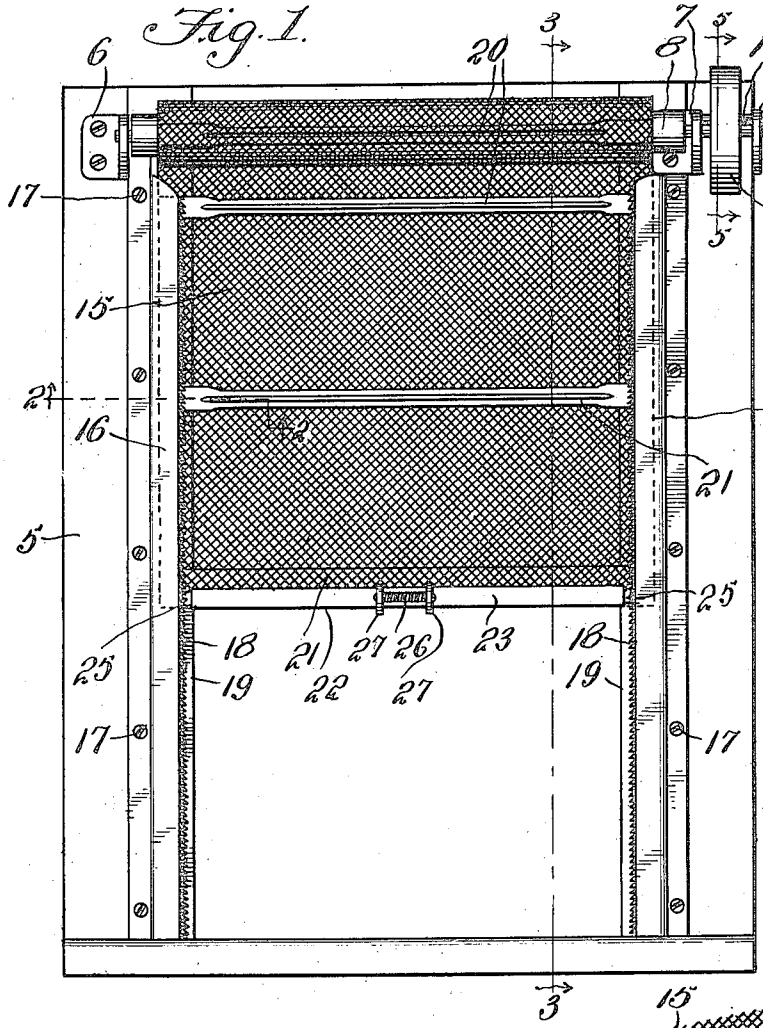


Fig. 3.

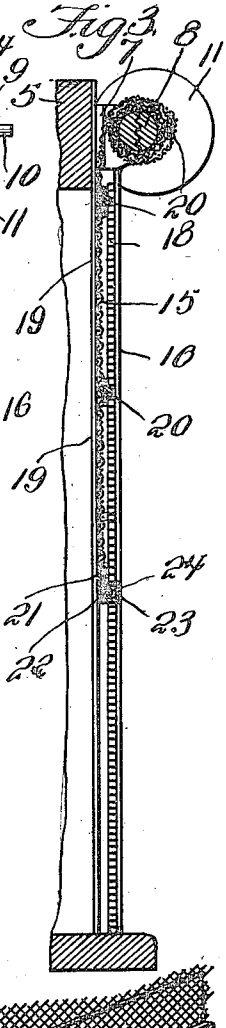


Fig. 2.

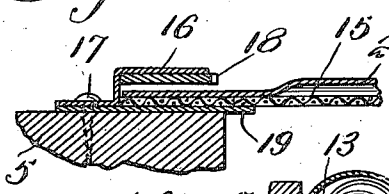


Fig. 4.

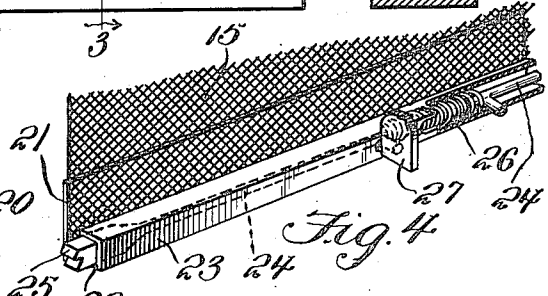
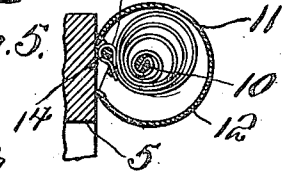


Fig. 5.



WITNESSES

J. T. L. Wright

J. Schumpkins

INVENTOR

Robert A. Johnson

BY Victor J. Evans

ATTORNEY

UNITED STATES PATENT OFFICE.

ROBERT A. JOHNSON, OF NEW ORLEANS, LOUISIANA.

WINDOW-SCREEN.

1,317,579. Specification of Letters Patent. Patented Sept. 30, 1919.

Application filed July 20, 1918. Serial No. 245,956.

To all whom it may concern:

Be it known that I, ROBERT A. JOHNSON, a citizen of the United States, residing at New Orleans, in the parish of Orleans and State of Louisiana, have invented new and useful Improvements in Window-Screens, of which the following is a specification.

The present invention has reference to flexible window screens, comprehending particularly that type mounted upon a spring roller, and one which is simple in construction, durable, effective and efficient in use and wherein novel adjusting means for the screen are provided capable of holding the latter against the tension of its spring.

It is my purpose to provide, in connection with a window screen of the above stated character, a series of spaced reinforcing strips for prolonging the life of the screen, certain of said strips being so constructed as to provide a housing in which are slidably mounted suitable tensioned adjusting rods.

With the above and other objects in view, the invention consists in the novel features, details of construction and combination of parts which will hereinafter be more fully set forth, illustrated in the accompanying drawing and pointed out in the appended claim.

Figure 1 is a front elevation of the screen shown constructed for use;

Fig. 2 is a transverse section taken on line 2—2 of Fig. 1;

Fig. 3 is a vertical section taken through Fig. 1; and

Fig. 4 is a perspective view of the lowermost reinforcing strip partially shown in section illustrating the adjusting rods.

Fig. 5 is a section taken approximately on the line 5—5 of Fig. 1.

In carrying out the present invention, I contemplate providing, among other features, a flexible screen mounted upon a spring roller and capable of being lowered or hoisted in a convenient and expeditious manner. With this object in view, I have shown connected with the upper portion of the window jamb 5, a pair of spaced brackets 6 and 7 for supporting a roller 8. An auxiliary bracket 9 is fastened to one of the vertical edges of the jamb 5 at the top thereof and in spaced parallel relation with the bracket 7, through which the pintle 10 of the roller is journaled. Loosely mounted on the pintle 10 of the roller 8 is a casing 11 having mounted therein a tension spring 12 with the inner end thereof secured to the pintle and free extremity 13 thereof connected with the bolt 14 projecting through the bracket 7 and auxiliary bracket 9 and traversing the space formed by the arrangement of said brackets. Consequently, when a pull is exerted downwardly on the flexible window screen 15 it will tension the roller 8, as is obvious. The character 16 denotes a pair of guide channels arranged to opposite sides of the window opening and secured in spaced parallel relation to one another and to the facing of the window jamb through the employment of fasteners 17, and in which the flexible window screen 15 operates. These guide channels 16 are preferably constructed of metal or the like material and the confronting vertical edges are serrated to provide racks 18, the purpose of which will be hereinafter more fully described as the description of the invention is proceeded with.

In order to prevent during the manipulation of the flexible screen the marring or damaging of the facings of the jamb, use is made of a pair of protectors 19 formed from a single rectangular metallic strip of material, confined against the window jamb in rear of the flexible screen and in confronting relation with the guide channels 16. Secured to the face of and transversely of the screen 15 is a spaced series of reinforcing strips 20 and 21 respectively. The reinforcing strip 12 is secured to the extreme bottom transverse edge of the flexible screen in any suitable manner, preferably by soldering the same thereto, and this strip is of greater width than the strips 20 and having a portion thereof projecting beyond the bottom or lower edge of the flexible screen to provide an extension 22. As previously stated, the construction of these reinforcing strips of sheet metal or the like material, permits of the extension to be bent at right angles with respect to the portion of the strip having connection with the screen to provide a housing 23 of rectangular form in cross section. This housing terminates short of the rack 18 and has slidably mounted therein a pair of adjusting rods 24, each having a toothed outer end 25, adapted to contact with the racks 18 for holding the screen in the proper adjusted position with respect to the window jamb. A coiled spring 26 is inter-

posed between the meeting ends of the adjusting rods and tends at all times to exert an outward pressure on the rods for operatively retaining the serrated or toothed ends 25 of the rods in contact with the racks 18. Suitable grips 27 are provided on the inner or meeting ends of each of the adjusting rods for convenience in retracting the rods when the occasion demands for the adjustment of the screen 15.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of construction and the method of operation will be readily apparent to those skilled in the art to which the invention relates, and while I have described the principles of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative and that such changes may be made when desired as are within the scope of the appended claim.

What is claimed as new, is:

In a flexible window screen, the combination with spaced racks secured to the opposite sides of the window opening, a reinforcing strip secured to the outer face and along the lower edge of the flexible screen, said reinforcing strip being bent at a point below the lower transverse edge of the screen to provide a housing of rectangular form in cross section, said housing being disposed along and interiorly of the lower edge of the flexible screen, and means operable in said housing adapted to coact with the said racks for holding the screen in various adjusted positions with respect to the window opening.

In testimony whereof I affix my signature.

ROBERT A. JOHNSON.