F. J. SCHOCK.

WINDOW SCREEN

APPLICATION FILED JULY 18, 1911.

1,052,284.

Patented Feb. 4, 1913.

2 SHEETS—SHEET 1.

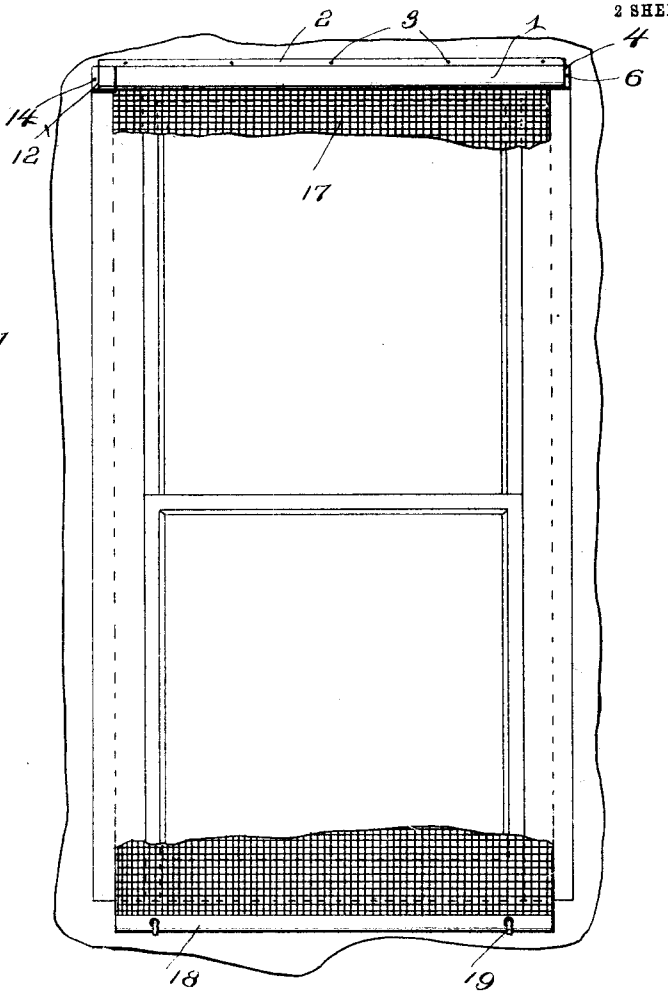


Fig. 1

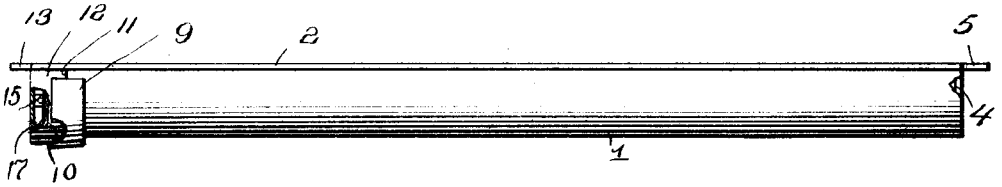


Fig. 3.

Inventor

Frank J. Schock.

Witnesses

William R. Smith.

E. Edwards Jr.

By Victor J. Evans

Attorney

F. J. SCHOCK.

WINDOW SCREEN.

APPLICATION FILED JULY 18, 1911.

1,052,284.

Patented Feb. 4, 1913.

2 SHEETS—SHEET 2.

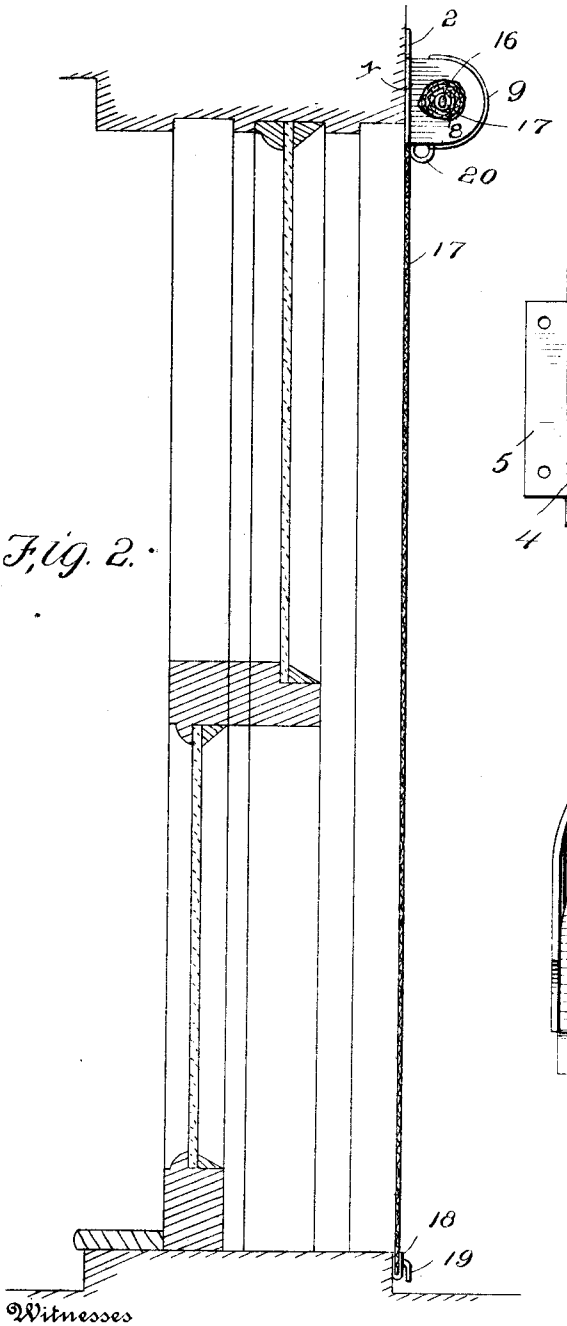


Fig. 2.

Fig. 4.

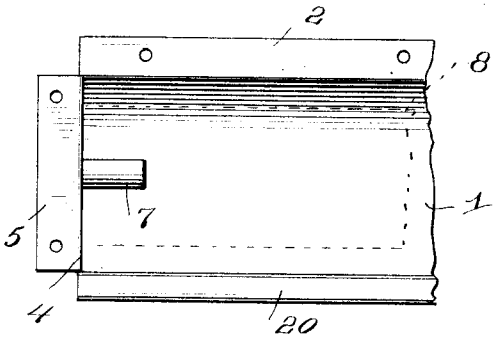
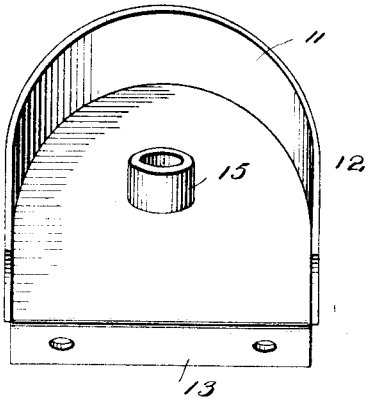


Fig. 5.



Witnesses

William R. Smith.

E. Edwards Jr.

Inventor

Frank J. Schock.

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

FRANK J. SCHOCK, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO FRED A. PHILLIPS, OF CLEVELAND, OHIO.

WINDOW-SCREEN.

1,052,284. Specification of Letters Patent. Patented Feb. 4, 1913.

Application filed July 18, 1911. Serial No. 639,077.

To all whom it may concern:

Be it known that I, FRANK J. SCHOCK, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented new and useful Improvements in Window-Screens, of which the following is a specification.

This invention relates to window screens and more particularly to that type which are mounted upon spring rollers so that they may be raised or lowered in the manner of curtains, shades or the like.

The object of the invention is the provision of a device of this character whereby the casing may be permanently secured to the window frame and the tension of the spring roller, mounted therein, may be regulated without removing the roller from the casing.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings, which form a part of this application, and in which:—

Figure 1 is a front elevation showing the device applied. Fig. 2 is a side elevation thereof. Fig. 3 is a detail top plan view with a portion of the strip broken away to show the channel. Fig. 4 is an inside elevation of the casing with the roller removed therefrom. Fig. 5 is a detail perspective view of the cap.

Referring more particularly to the drawings, 1 represents a substantially semi-cylindrical casing having a laterally extending flange 2 at its upper edge to receive fastening devices 3. One end of the casing is closed by a cap 4 which is provided with a lateral flange 5 also provided with apertures to receive the fastening devices 6. This cap has projecting inwardly therefrom a stud 7 upon which one end of the spring roller 8 is journaled. At the opposite end of the casing a strip 9 is secured therearound which forms a channel 10 for the reception of the semi-circular flange 11 which is secured to the end cap 12. This end cap is also provided with a lateral flange 13 having apertures to receive the fastening devices 14 and is provided with a socket member 15 which extends inwardly therefrom, so as to engage the projecting end of the spring shaft 16.

Wound around the roller 8 is a quantity of screen fabric 17 upon the lower end of which is secured a metallic strip 18 having apertures therein to receive suitable attaching screws 19 preferably provided with hinged heads, so as to permit of convenient insertion within the sill or other portion of the window frame. The lower edge of the casing is preferably rolled, as shown at 20, so as to provide a smooth surface over which the fabric is adapted to travel and, in practice, the edges of the fabric are preferably confined in the guideways, not shown, so as to prevent any space between the fabric in the frame where insects might gain access to the room.

When it is desired to change the tension of the spring roller or decrease said tension, the end cap 12 is removed and turned in the proper direction. This cap being provided with the boss 15 having the oval aperture therein which engages the oval extension of the shaft 16 will rotate the shaft and tighten the spring within the roller. The cap may be then replaced with the flange 11 lying in the channel 10, the stud 7 being sufficiently long to permit the withdrawal of the roller sufficiently to withdraw the flange from the channel and casing.

Having thus described the invention, what I claim as new is:—

1. In a device of the class described, the combination with a casing, of a spring roller having a projecting spring shaft, means for journaling one end of the roller in the casing, and a removable cap carried by the casing and having a socketed boss for holding the spring shaft of the roller.

2. In a device of the class described, the combination with a casing, of a spring roller mounted in the casing and having a projecting spring shaft, a stud carried by the casing for journaling one end of the roller within the casing, a removable cap carried by the casing, a socketed boss upon the cap for receiving the spring shaft and supporting the opposite end of the roller, and means for attaching the cap to a support independent of the casing.

3. In a device of the class described, the combination with a casing, of a spring roller mounted in the casing and having a projecting spring shaft, a stud carried by the casing for journaling one end of the roller

within the casing, a removable cap carried by the casing, a socketed boss upon the cap for receiving the spring shaft and supporting the opposite end of the roller, means for attaching the cap to a support independent of the casing, a screen fabric wound upon the roller, means to attach the casing to one end of a window frame, and means to attach the free end of the fabric to the opposite end of the window frame.

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

FRANK J. SCHOCK.

Witnesses:

LILLIE BROCKETT,

CARL K. CATLAUACH.