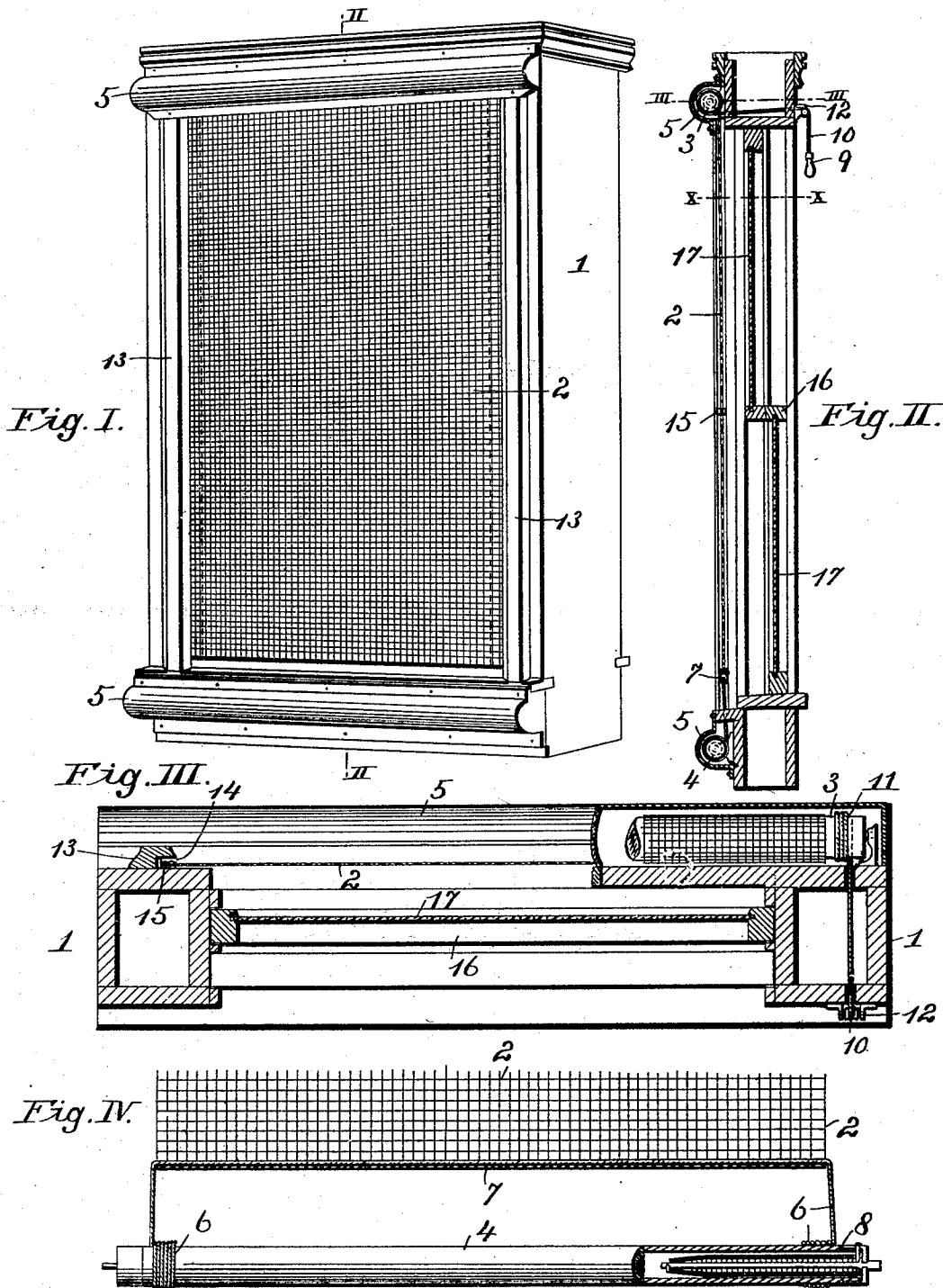


(No Model.)

C. DEPLANTY.
WINDOW SCREEN.

No. 509,844.

Patented Nov. 28, 1893.



Witnesses:

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UNITED STATES PATENT OFFICE.

CHARLES DEPLANTY, OF COFFEYVILLE, KANSAS, ASSIGNOR OF ONE-HALF
TO GEORGE F. BOSWELL, OF SAME PLACE.

WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 509,844, dated November 28, 1893.

Application filed April 25, 1893. Serial No. 471,730. (No model.)

To all whom it may concern:

Be it known that I, CHARLES DEPLANTY, of Coffeyville, Montgomery county, in the State of Kansas, have invented certain new and useful Improvements in Window-Screens, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to certain new and useful improvements in the construction and operation of window screens; and my invention consists in certain features of novelty hereinafter described and pointed out in the claims.

Figure I, represents the perspective of a window frame, showing my screen attached thereto, the screen being drawn down. Fig. II, is a vertical, longitudinal section taken on line II, II, Fig. I. Fig. III, is a transverse sectional view, a portion of it being taken on line III, III, Fig. II, and a portion taken on line X, X, Fig. II. Fig. IV, is an enlarged detail view showing the lower portion of the screen, and spring roller, and the manner of attaching the cord which passes around the roller to the screen.

Referring to the drawings: 1, represents the window frame to which my improved screen attachment is connected.

2, represents the screen secured at its respective ends to a roller 3, at the top of the window frame, and a roller 4, at the bottom of the window frame, said roller 3, being so journaled to the top of the window frame as to permit the screen 2, to roll around the same. The rollers 3 and 4, which are journaled to the outside of the window frame are protected by housings 5, thus forming a neat finish and at the same time protecting the screen and the cords attaching the screen to the lower roller. To the lower roller 4, is secured a cord 6, passing around said roller near its ends, said cord passing through a metal strip 7, secured to the lower end of the screen 2.

8, represents a spring secured to the roller 4, in the same manner as the ordinary curtain roller, said spring causing the roller 4, to revolve, and by so doing wind up the cord 6, and draw the screen 2 downward, closing up the

window opening, the screen when not in use being wound around the upper roller 3. When it is desired to draw the screen upward, all that is necessary to do is to seize the hand-piece 9, attached to the end of a cord 10 within the room, the opposite end of the cord 10, being wound around the upper roller 3, as shown at 11, so that by drawing on said cord 10, said roller 3, is revolved and the screen 2, wound thereon.

Suitable means is provided for holding the cord 10, at any desired point in order that the screen 2, may be held a portion of the way from the bottom of the window if desired. I have shown the usual curtain roller 12 for this purpose, which consists of a spirally grooved roller which clamps the cord wherever the same is released but on which I make no claim; but other means may be used if desired.

The screen 2, is protected at its sides by means of strips 13, secured to the outer side of the window frame, said strips having a vertical recess 14, in which the screen operates. I preferably secure to the sides of the screen guide pieces 15, which travel in recesses 14; but said guide pieces may be dispensed with and the screen used without the same without departing from the spirit of my invention.

16, represents a window sash with the window pane 17, secured therein. In operation, when it is desired to lower the screen the cord 10, is seized and loosened from its fastenings and the spring 8, in the lower roller causes the roller to wind up the cord 6, and draw the screen downward. Said screen may be stopped in its descent at any point by merely securing the cord 10. Then by drawing on the cord 10, the screen may be raised to any desired point and secured there or may be entirely wound upon the upper roller 3, and held securely in place out of the way of the window, and be thoroughly protected from the weather, rust, &c.

I claim as my invention—

1. A window screen having one end attached to a roller on which the same may be wound, said roller being secured to one end of a window frame; a roller journaled at the opposite end of the window frame and a connecting

medium between said last named roller and the window screen; substantially as described and for the purpose set forth.

2. The combination of a window frame secured to a roller at one end of the sash on which the same may be wound; means for revolving said roller; a roller secured to the opposite end of the frame having a spring in connection therewith; and a cord on said roller, said cord being connected with the window screen; substantially as and for the purpose set forth.

3. The combination of a window screen; a roller secured to one end of a window frame on which said screen may be wound; a roller secured to the opposite end of the window frame, having a spring therein; and a cord on

said roller, said cord being connected with the window screen and housings for protecting said rollers; substantially as set forth.

4. The combination of a window screen; rollers on which the same may be wound, secured to a window frame; means for unwinding said screen; strips secured to the outer side of said window frame for forming a guide for said screen; recesses in said strips; and guide pieces attached to said screen and working in said recess; substantially as and for the purpose set forth.

CHARLES DEPLANTY.

Witnesses:

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