

(No Model.)

A. E. SWAIN.
ROLLING WINDOW SCREEN.

No. 321,921.

Patented July 7, 1885.

Fig. 1.

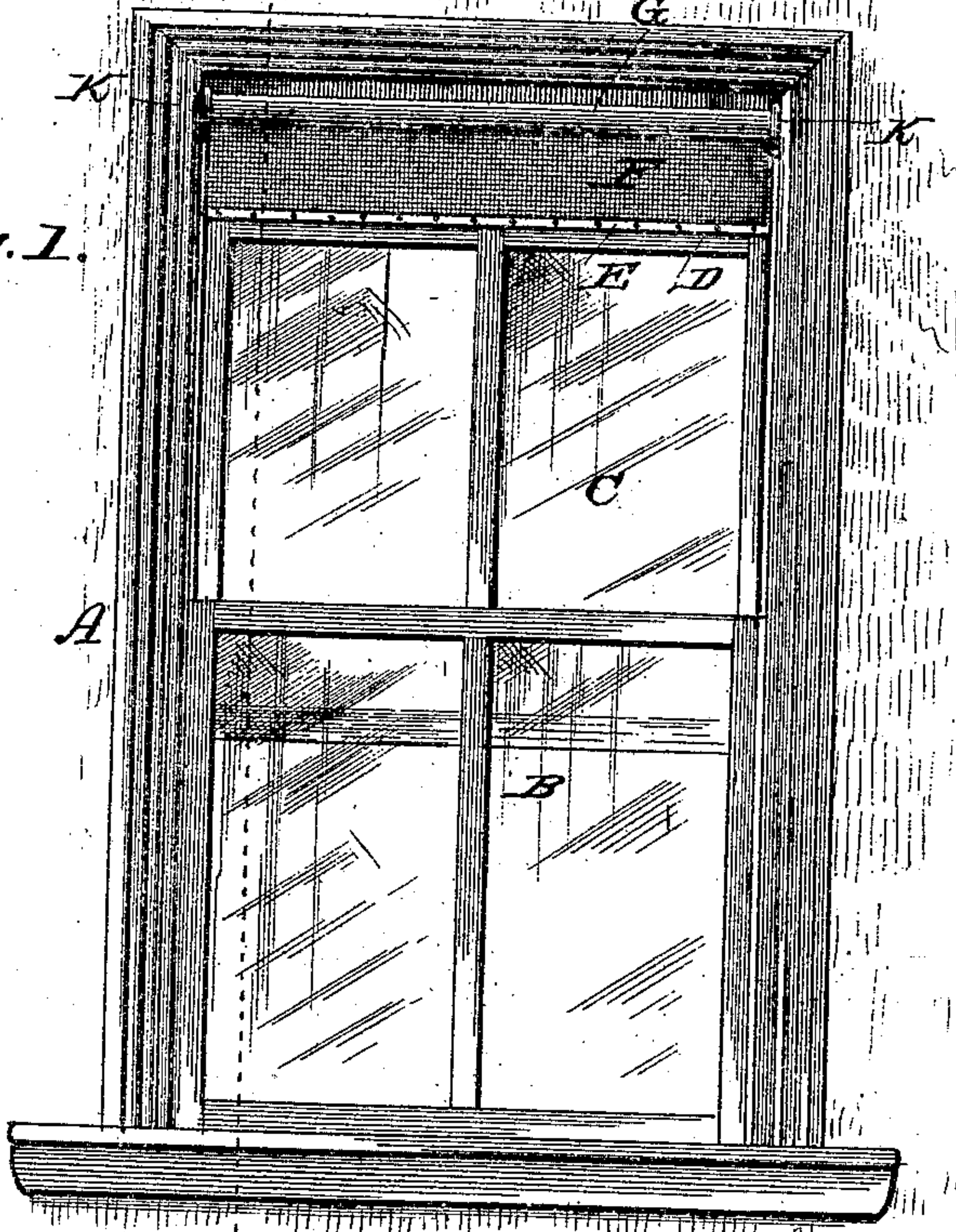


Fig. 2.

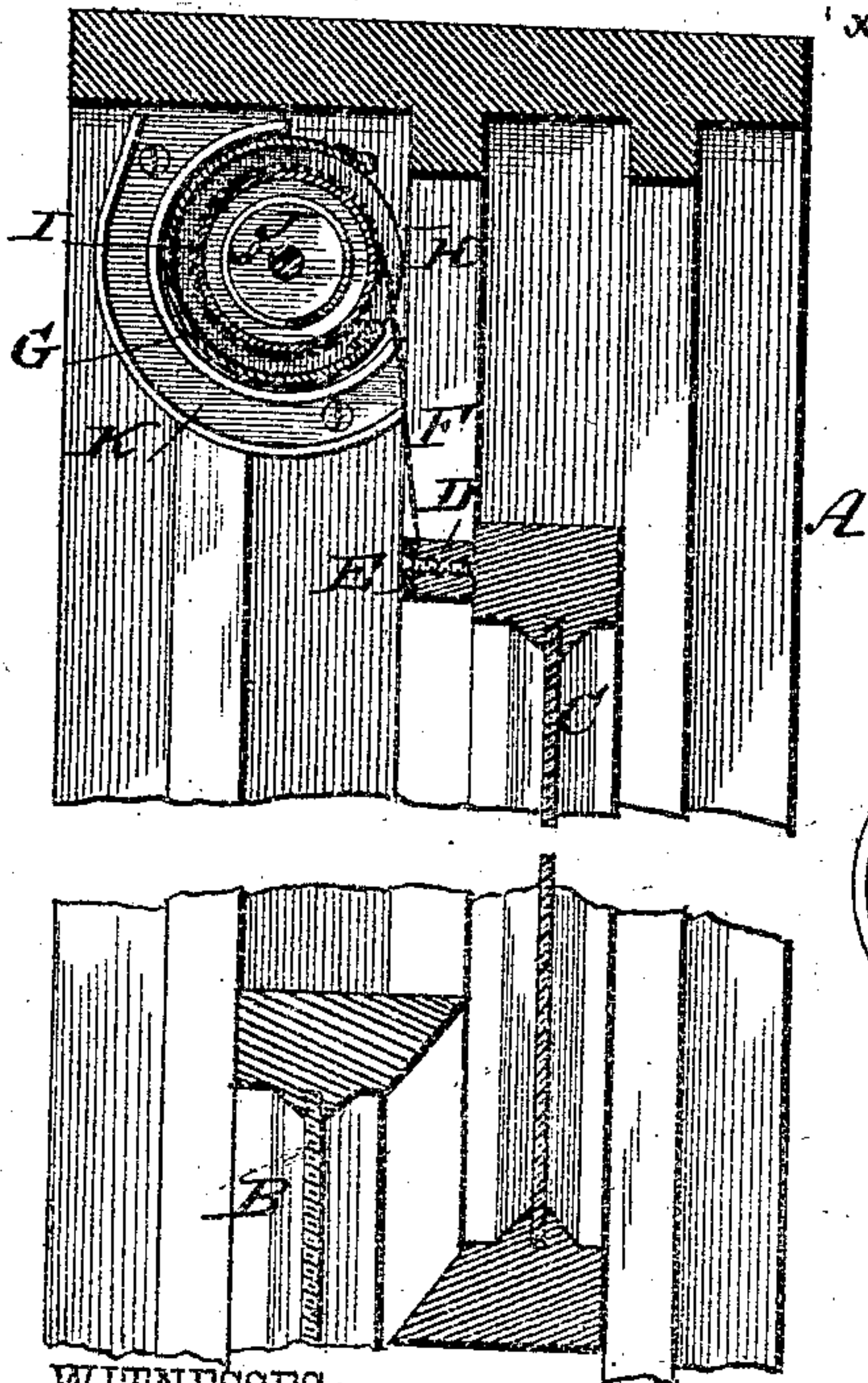
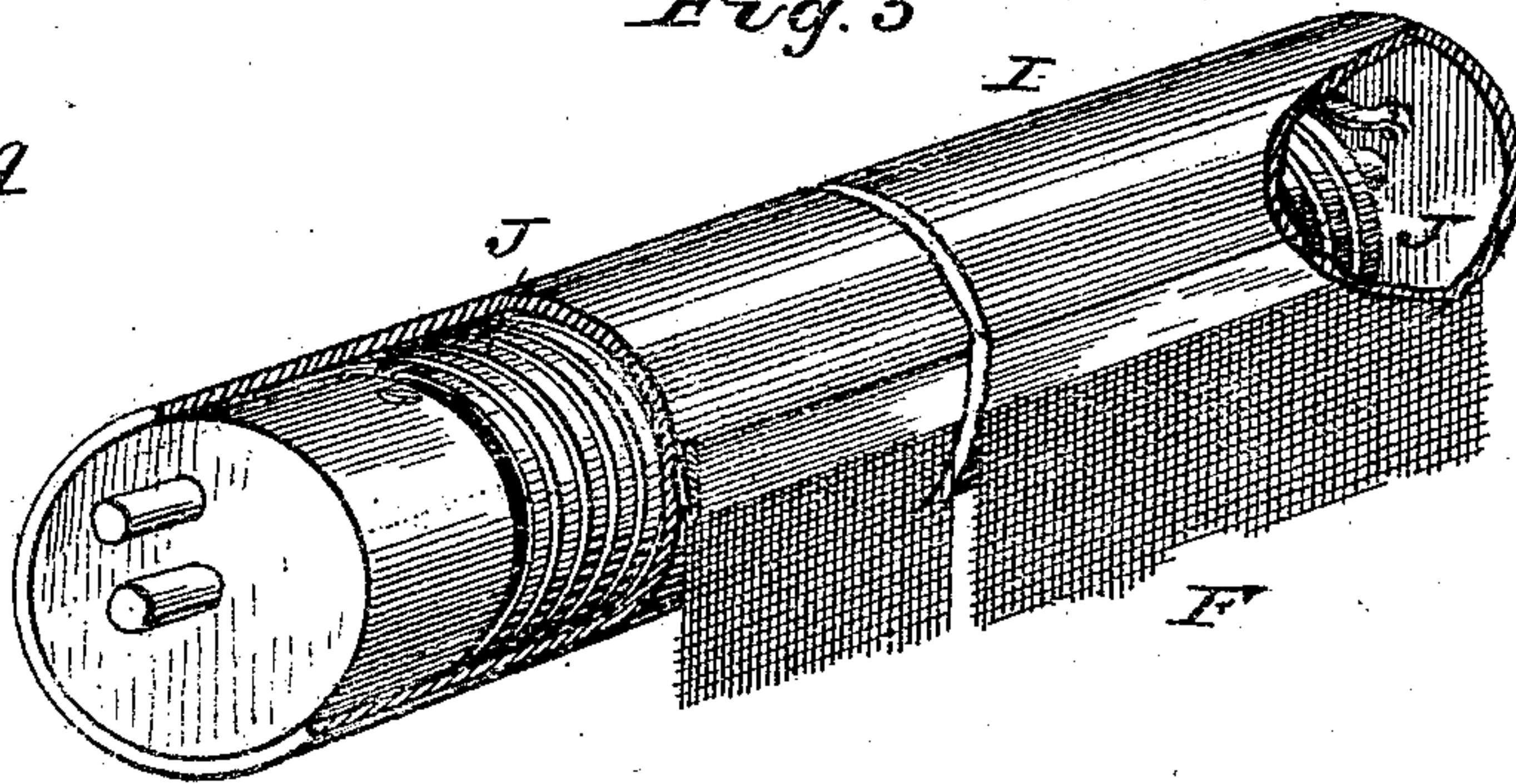


Fig. 3.



WITNESSES:

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ROLLING WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 321,921, dated July 7, 1885.

Application filed March 11, 1885. (No model.)

To all whom it may concern:

Be it known that I, ADDIS E. SWAIN, a citizen of the United States, and a resident of Cherryvale, in the county of Montgomery and State of Kansas, have invented certain new and useful Improvements in Rolling Window-Screens; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front view of a window equipped with my improved rolling screen. Fig. 2 is a vertical sectional view of the same, taken on the line *x x* in Fig. 1; and Fig. 3 is a detail view in perspective and on a larger scale, illustrating more clearly the construction of a portion of my invention.

The same letters refer to the same parts in all the figures.

This invention relates to rolling window-screens; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view the invention consists in the improved construction and arrangement of parts which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates the window-frame; B, the lower and C the upper sash, all of which are, in the main, of ordinary construction, for which no novelty is herein claimed. Suitable sash locks or holders may be provided for either or both sashes; or the latter may be hung with cords and weights in the ordinary manner.

Secured to the top rail of the upper sash is a flange, D, which, when the said sash is lowered, will rest upon the meeting-rail of the lower sash. This strip or flange is to be of the same width as the parting rails or beads, and to its front side is secured a metallic strip, E, the ends of which project over the parting-rails, and between which and the flange D is clamped or clasped the lower end or edge of a screen, F, of woven wire or textile netting

of any suitable description. The upper edge of the screen, which latter may be of any suitable length, is to be attached, in any suitable manner, to a cylindrical roller located in and journaled in the ends of a cylindrical case, G, having a slot, H, for the passage of the screen-fabric.

The roller, which is designated by letter I, is partly hollow or tubular, and contains a coiled spring, J, one end of which is made fast to said roller, and the other end of which is attached to one of the ends of the case I, so that when the said roller is revolved, which may be done by unwinding the screen from it, the said spring shall be wound so as to act, when the screen is released, to revolve the roller in the opposite direction and wind the screen thereon.

The cylindrical case G is mounted in curved and flanged brackets K K at the upper ends of the sides of the window-frame, so that by the simple application of the said brackets the device may be readily applied to any window of ordinary construction, to the upper sash of which the lower edge of the screen is then attached by the flange D and strip E, in the manner described in the foregoing.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of this invention will be readily understood.

The general construction is simple and inexpensive, and the device may be readily applied to ordinary windows without altering their construction. The upper sash may be readily adjusted so as to unroll the screen either quite or partially, while by simply raising the sash the screen is automatically wound upon the roller, when it will be protected from all injury by the surrounding cylindrical casing.

I am aware that flexible screens have been secured at one end to a screen-roller secured in the window-frame, and at the other end to the upper edge of the upper window-sash; and I am also aware that these screen-rollers have been inclosed in casings having a slot, through which the screen passes; and I do not wish to claim such constructions, broadly; but

I claim—

5 In a rolling window-screen, the combination, with the dividing-bead of the window-casing and the window-casing, of a trough-shaped casing, a pair of semicircular brackets having each a securing and a retaining flange for fastening said casing in the angle between said bead and the window-casing, and a suitable screen secured to the sash and to a roller

within said trough-shaped casing, substantially as and for the purpose set forth. 10

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

ADDIS EMITT SWAIN.

Witnesses:

LEO J. BARR,
J. H. BEARD.