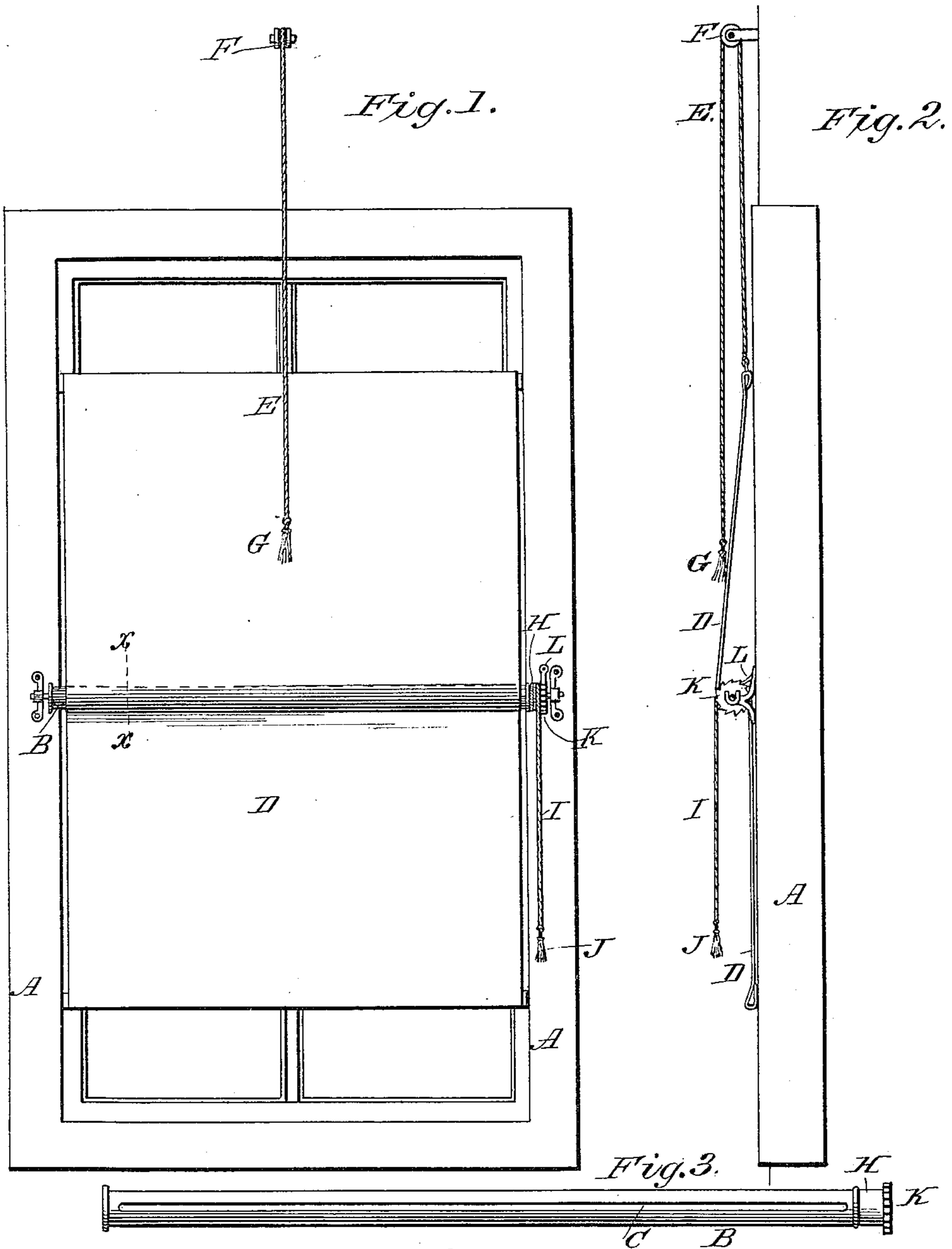


(No Model.)

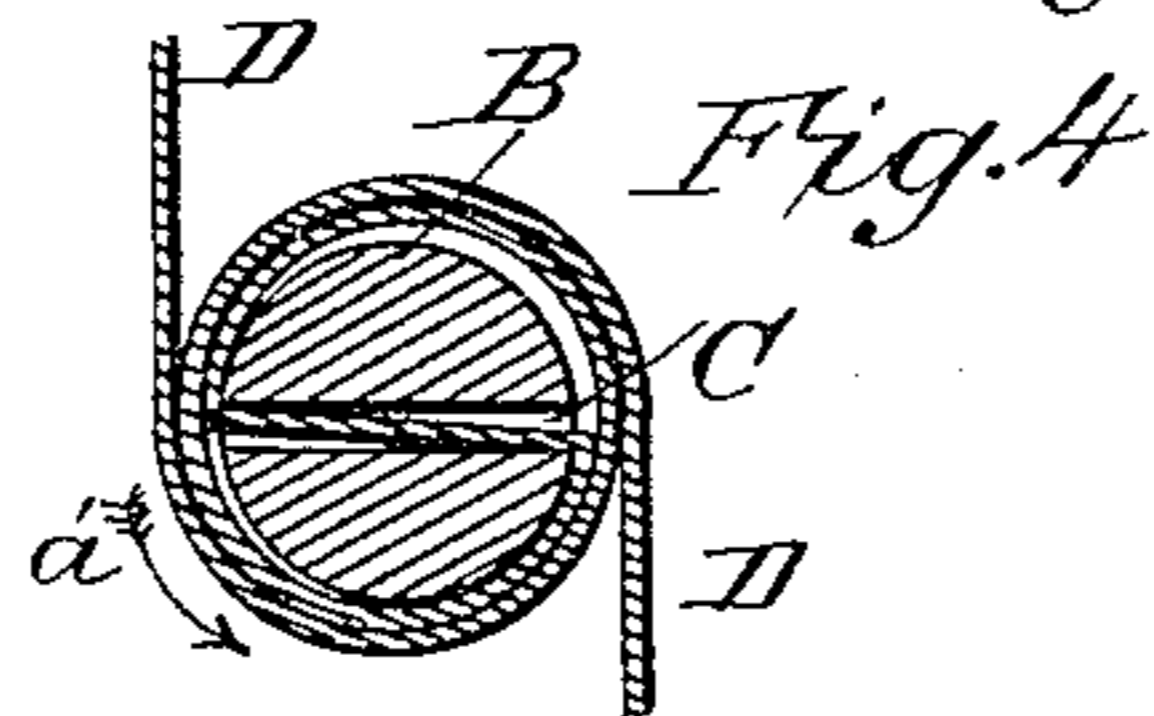
C. BELL.
CURTAIN FIXTURE.

No. 362,706.

Patented May 10, 1887.



WITNESSES:
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UNITED STATES PATENT OFFICE.

CHARLES BELL, OF OLD TACOMA, WASHINGTON TERRITORY.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 362,706, dated May 10, 1887.

Application filed August 31, 1886. Serial No. 212,310. (No model.)

To all whom it may concern:

Be it known that I, CHARLES BELL, of Old Tacoma, in the county of Pierce and Territory of Washington, have invented an Improvement in Curtain-Fixtures, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved curtain-fixture which permits of either screening the entire window, or the upper or the lower half of the window, as desired.

The invention consists in a screen passing through a longitudinal slot in a roller mounted in the center of the window and provided with a drum, over which passes a rope carrying a weight, and of a rope attached to the screen and provided with a weighted tassel.

The invention also consists of various parts and details and combination of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of a window-frame, showing my improvement attached thereto. Fig. 2 is a side elevation of the same. Fig. 3 is a front view of the roller, and Fig. 4 is a vertical cross-section of my improved roller on the line *xx* of Fig. 1.

In the middle of the window-frame A is mounted in suitable bearings the roller B, having the longitudinal slot C, through which passes the window-screen D, supported on its upper end by a cord, E, which passes over a pulley, F, mounted in bearings attached above the upper window to window-frame A or to the wall.

The pulley F should be arranged above the top of the upper sash a distance equal to one-half of the height of the lower sash.

The cord hangs down in front of the screen D and carries on its lower end the weighted tassel G.

To one side of the roller B is attached the drum H, to which is secured one end of the cord I, which winds on the said drum H and is provided on its lower end with a weighted tassel, J.

A ratchet-wheel, K, is also formed on the drum H, and is engaged with a pawl, L, piv-

oted either on the window-frame A or to the roller-bracket, to prevent the screen-roller from being operated by the weighted tassel G, the said tassel being of greater weight than the combined weight of the screen and the tassel J.

The operation is as follows: When the screen D covers the entire window and it is desired to clear the same, then the operator pulls on the cord I, thereby rotating the roller B in the direction of the arrow *a'*, (see Fig. 4,) which causes the screen D to wind itself upon the roller B, so that the part of the screen D above the roller B descends to the same, while the part of the screen below the roller B moves upward to the latter until the entire screen D is wound upon the roller B. When the operator desires to cover the entire window with the screen D, he lifts the weighted tassel J, and the weighted tassel G on the cord E pulls the upper end of the screen D upward, thereby unwinding the screen D from the roller B. The lower half of the screen moves downward by its own weight. If it is desired to shade the lower half of the window and unscreen the upper window, then the operator pulls the extended screen D downward through the slot C of the roller B a certain distance, and by then pulling on the rope I the remainder of the screen D above the roller B is wound up entirely on the roller B, while from the larger part of the screen below the roller is only a portion wound upon the roller, so that the lower part of the window is screened while the upper part is clear.

When it is desirable to shade the upper window and clear the lower one of the screen, then the operator lifts the weight J and draws the shade upward through the slot in the roller, so that the extended screen D is pulled with its upper end clear up to the pulley F by the weighted tassel G, while the roller B is held stationary. Then the operator pulls on the cord I and winds up the entire part of the screen below the roller B onto the same, while from the part of the screen above the roller B is only that portion wound up which extends from the upper end of the window to the pulley F. Thus it will be seen that the entire window can be screened or unscreened, or the upper window only can be screened, while the lower window is cleared, or vice versa. The ratchet-wheel K and the pawl L serve to hold

the roller B and the screen D in place in any desired position by engaging the pawl L with the ratchet-wheel K; but it may be dispensed with altogether.

5 Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

10 1. In a window-screen, the combination of the roller B, having the longitudinal slot C, with a screen passing through the said slot C and supported on its upper end by a weighted cord passing over a pulley, substantially as shown and described.

15 2. In a window-screen, the combination of the roller B and the weighted cord I, wound upon the said longitudinal slotted roller B, with a screen passing through the slot C, and the weighted cord E, supporting the said screen and passing over the pulley F, sub-
20 stantially as shown and described.

3. In a window-screen, the combination of a roller mounted across the middle of a window and having a longitudinal slot, with a window-screen passing through the said slot and counterbalanced on its upper end, sub- 25 stantially as shown and described.

4. In a window-screen, the roller B, having the slot C and provided with the drum H, the cord I, winding upon the said drum H, and the weighted tassel J, attached to the lower 30 end of the said cord I, in combination with the screen D, the rope E, attached to the upper end of the said screen D, the pulley F, over which passes the rope E, and the weighted tassel G, secured to the said rope E, substantially as 35 shown and described.

CHARLES BELL.

Witnesses:

P. PETERSEN,
CHAS. W. WALKER.