

(No Model.)

J. B. FINCH & A. W. TANNER.

CURTAIN FIXTURE.

No. 251,204.

Patented Dec. 20, 1881.

Fig. 1

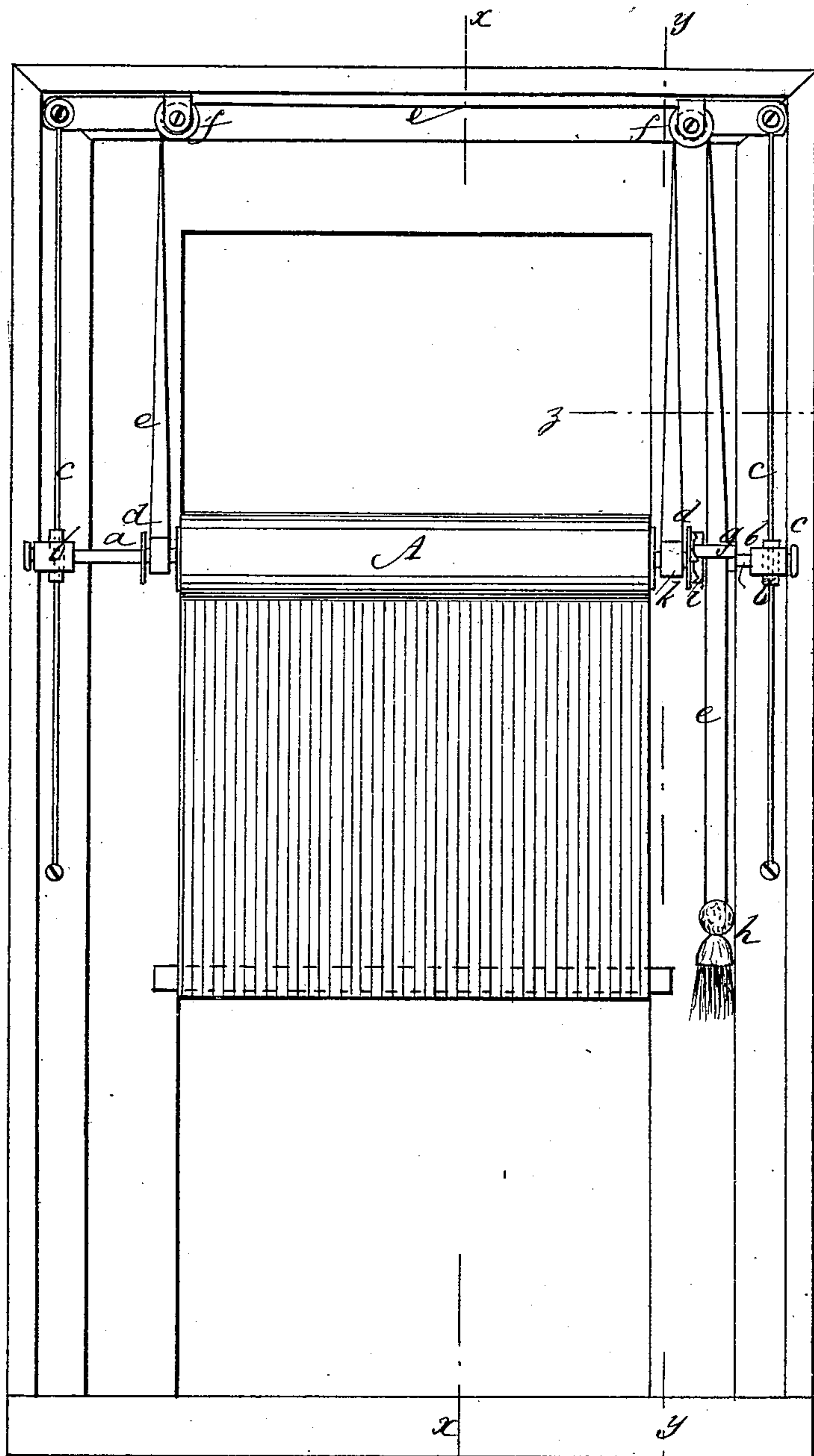
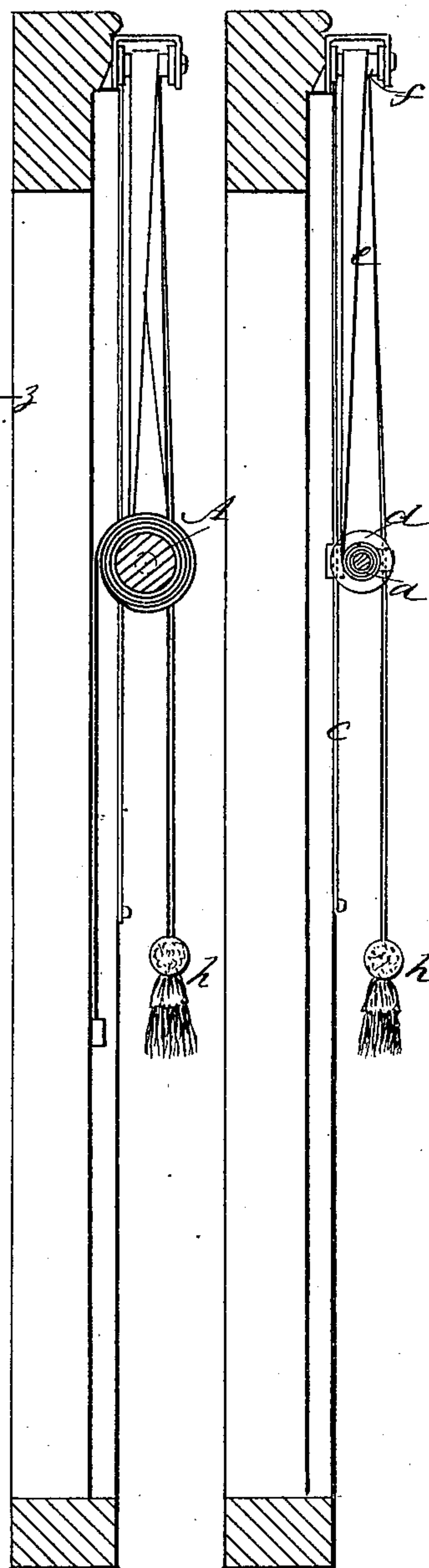


Fig. 2

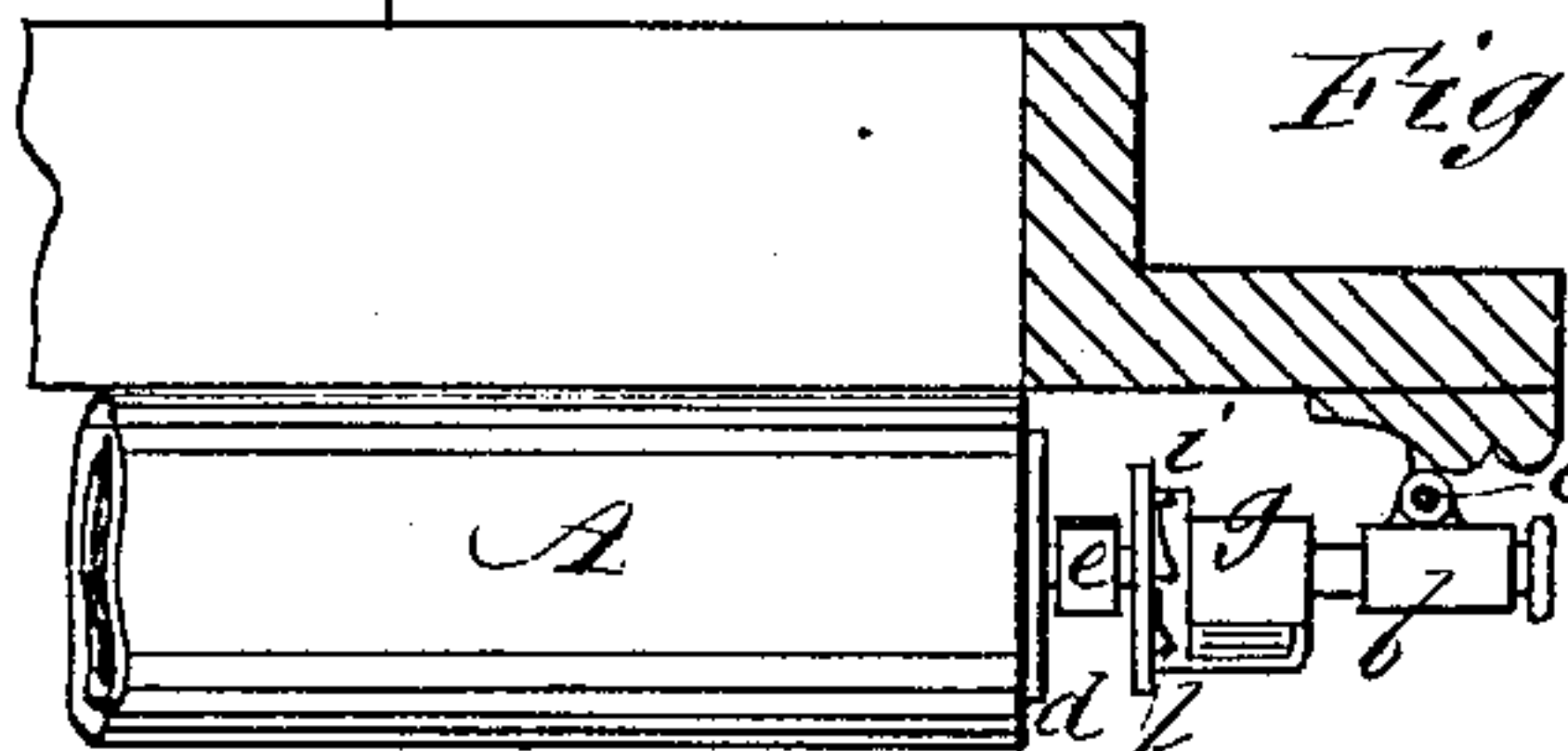
Fig. 3



WITNESSES:

C. Nevins
C. Sedgwick

Fig. 4



INVENTOR:

J. B. Finch
A. W. Tanner
Mum & Co
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES B. FINCH AND ALBERT W. TANNER, OF BOZEMAN, MONTANA TERRITORY.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 251,204, dated December 20, 1881.

Application filed September 29, 1881. (No model.)

To all whom it may concern:

Be it known that we, JAMES B. FINCH and ALBERT W. TANNER, of Bozeman, in the county of Gallatin and Territory of Montana, have
5 invented a new and useful Improvement in Curtain-Fixtures, of which the following is a full, clear, and exact description.

The object of our invention is to provide for the adjustment of rolling curtains or shades to
10 admit light and air at either the top or bottom of the window, or at both, as may be most convenient or desirable.

To that end our invention consists of the combined devices hereinafter described and
15 claimed.

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

20 Figure 1 is a front view of the improved fixture as applied to use. Figs. 2 and 3 are vertical sections of the fixtures respectively on the lines *xx* and *yy* of Fig. 1, and Fig. 4 is a horizontal section on line *zz*.

25 A is the roller, having the ends *a a* of its axis projecting at the front of the window-frame into tubular boxes on slides *b*, that are upon rods *cc*, fixed at the sides of the window-frame. The ends *a a* of the roller-axis are provided with spools *d d*, from which tapes, *e e*
30 pass upward and over rollers *ff*, fixed at the top of the window-frame. On one end *a* is a loose sleeve, *g*, formed with a guide or loop for the tapes *e*, and through which loop they pass from the rollers *f*. At their lower ends the
35 tapes are connected to a weighted tassel, *h*. The end of sleeve *g* is formed as a ratchet, *i*, and on the spool *d* next the ratchet is a pin, *k*, for engagement therewith, to retain the roller
40 in position.

In operating the shade the roller is raised toward the top of the window by holding the tapes *e* and the lower end of the shade at the same time and pulling upon either. By allowing the ratchet to engage the pin *k* the roller
45 is held at any point. By moving the tapes to the right the ratchet is disengaged and the roller will slide down. The curtain is unrolled by drawing upon it and rolled up by drawing on the tapes while they are held to the right to
50 disconnect the ratchet. The guide-rods *c* serve to retain the curtain-roller in place against wind, and also insure level movement of the roller in its rising and falling movements.

We are aware that a suspended movable
55 curtain-roll, a wheel carrying a tooth on its side and locked or unlocked in or from a socket in the side of a spool, tubular bearings sliding on vertical rods, and cords weighted to counter-balance the curtain-roll at any desired height
60 are all in themselves old; but

What we claim as new is—

The combination, with the curtain-roll A, having axis ends *a a*, of the spools *d d*, of which one has a pin or tooth, *k*, on the outer
65 side, the sleeve *g*, having side loop and end ratchet, the tapes *e*, provided with a weighted tassel, *h*, the tubular bearings sliding on vertical rods *cc*, and the pulleys *ff*, all arranged as shown and described, whereby the curtain-
70 roll may be raised, lowered, locked in position, or unlocked without flying out from the frame or at any time losing its horizontal position.

JAMES BOON FINCH.

ALBERT WALLACE TANNER.

Witnesses:

TH. R. EDWARDS,

JOHN S. DUNIVIN.