

No. 616,274.

Patented Dec. 20, 1898.

F. SUCCIE.
CURTAIN FIXTURE.

Application filed July 21, 1897.

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

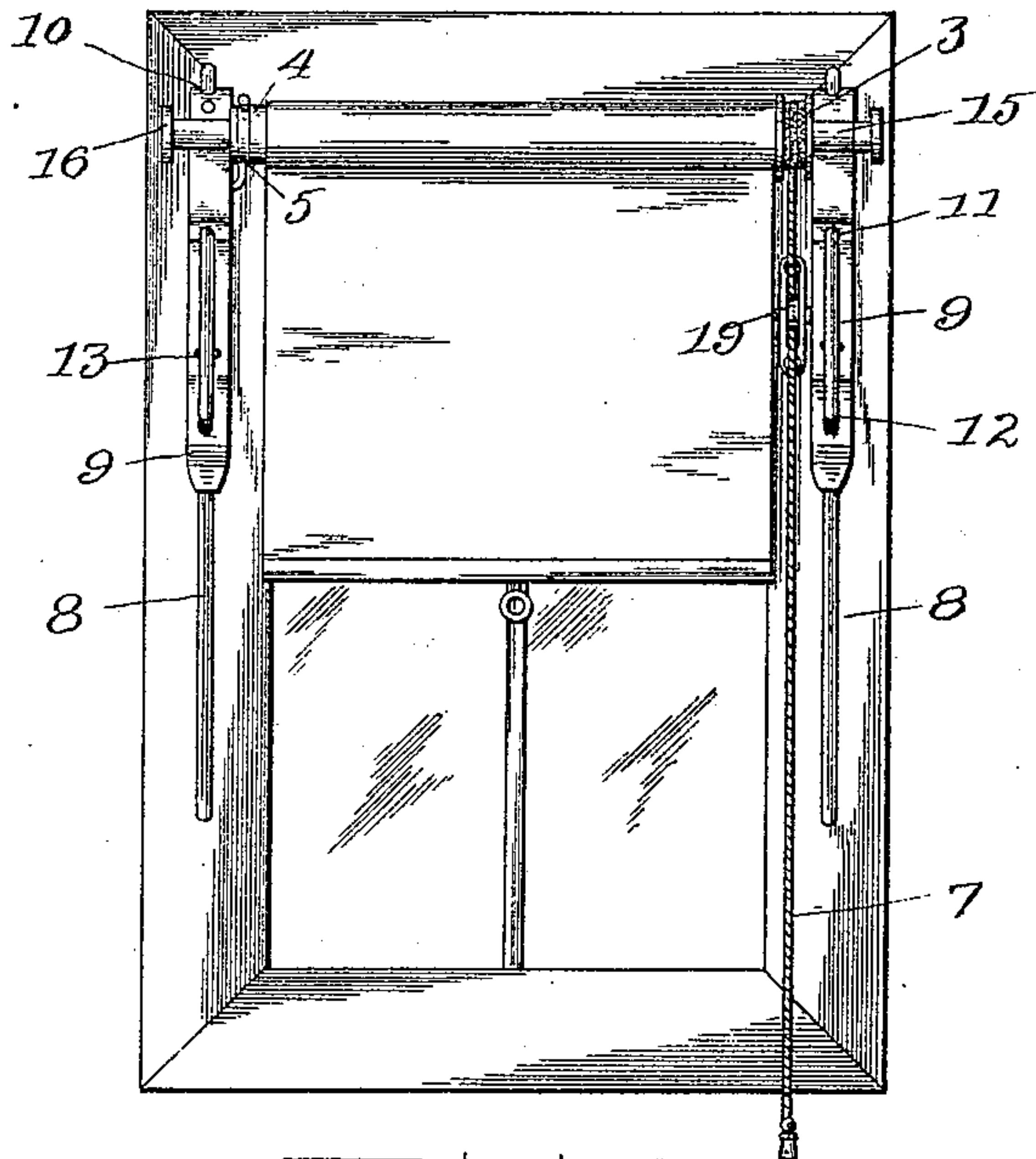
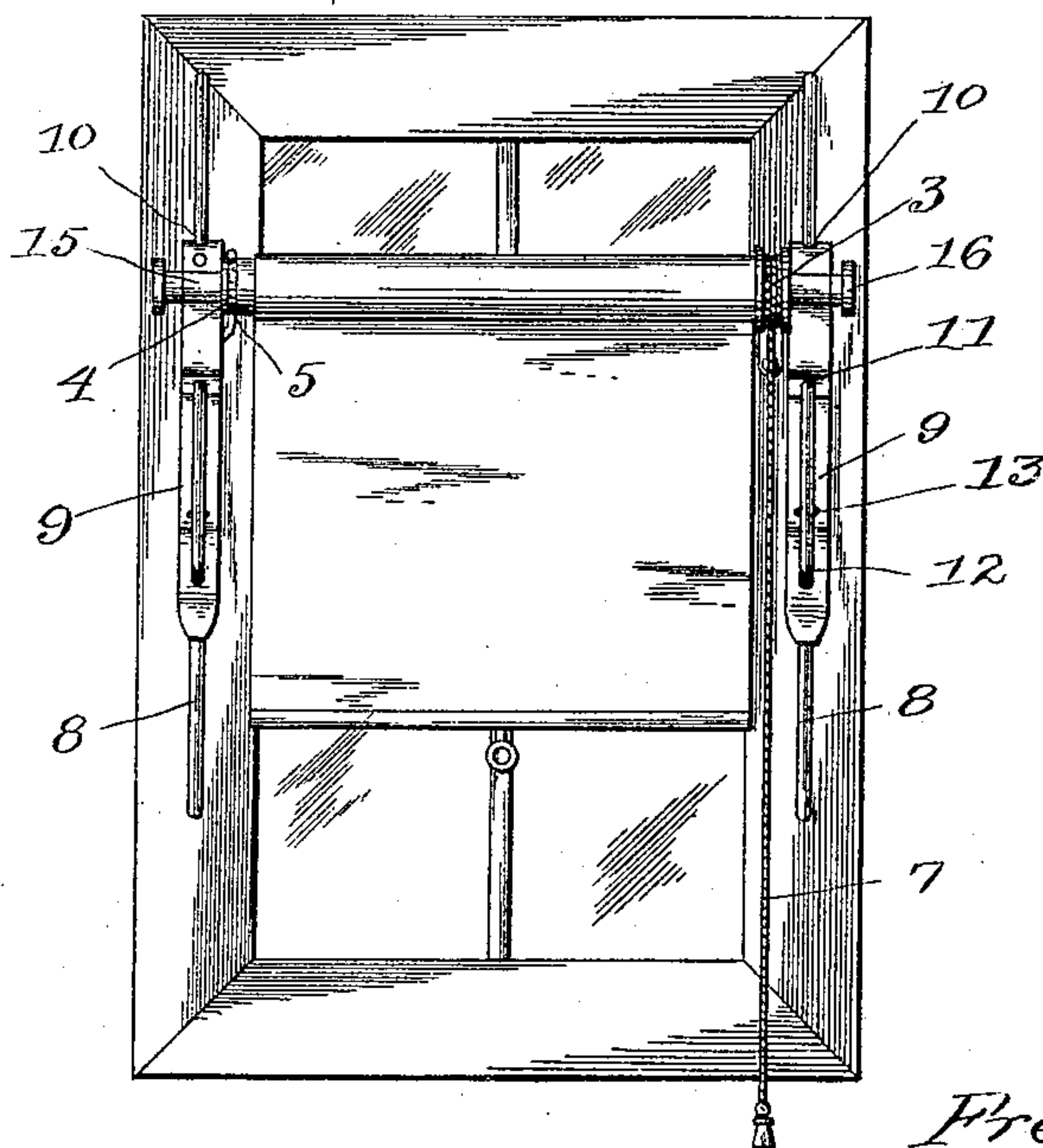


Fig. 2.



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Fig. 3.

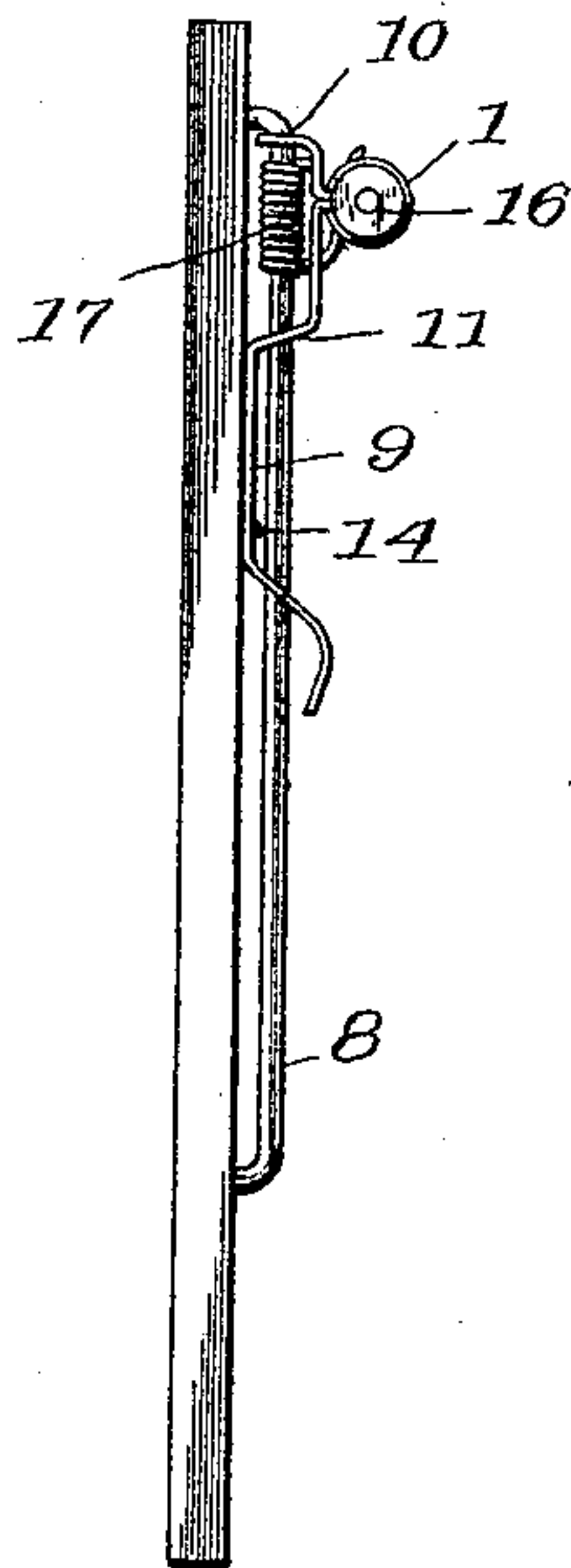


Fig. 4.

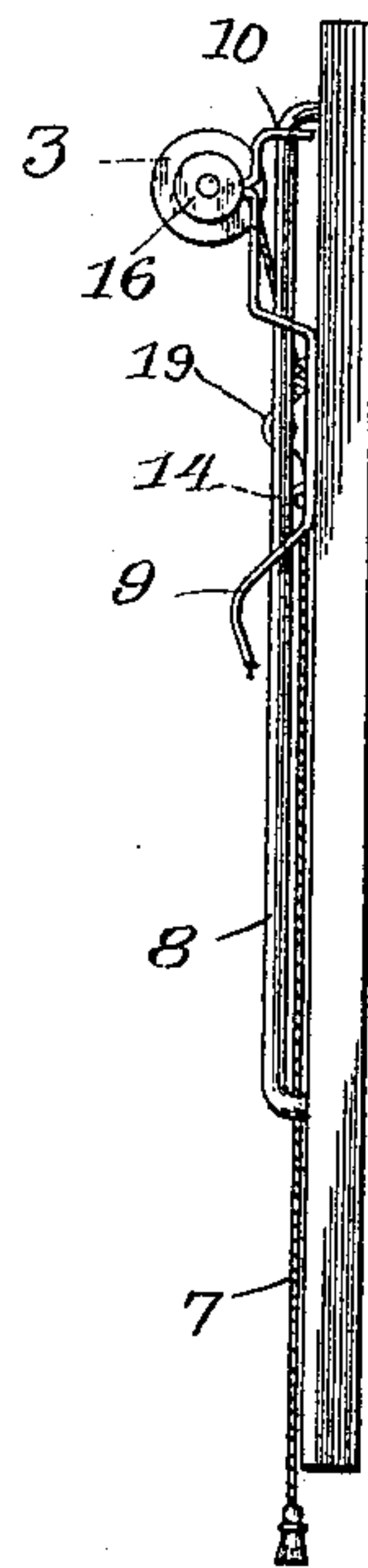
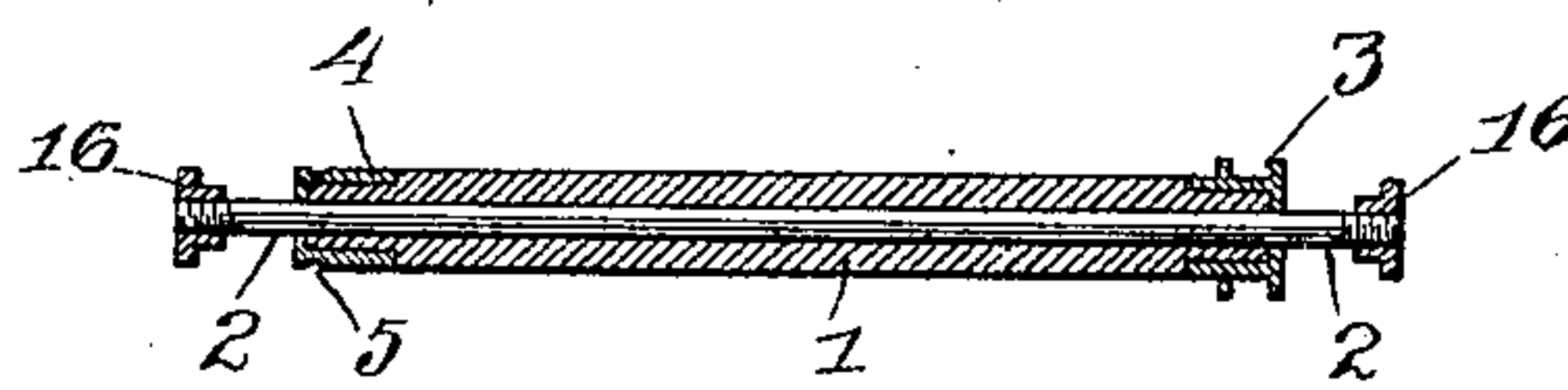


Fig. 5.



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UNITED STATES PATENT OFFICE.

FRED SUCCIE, OF BREWER, MAINE.

CURTAIN-FIXTURE.

SPECIFICATION forming part of Letters Patent No. 616,274, dated December 20, 1898.

Application filed July 21, 1897. Serial No. 645,389. (No model.)

To all whom it may concern:

Be it known that I, FRED SUCCIE, of Brewer, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Curtain-Fixtures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 This invention relates to improvements in curtain-fixtures, and has for its object to provide an improved mechanism by means of which not only can the curtain be raised by drawing upon a cord and retained in variable
15 degrees of height, but also the roller may be lowered to any intermediate transverse position upon the window-frame.

My device is simple and of few parts, which are not likely to become disconnected or otherwise out of order.

20 In the drawings herewith, forming part of this specification, Figure 1 is a front elevation of a window with curtain and my improved fixtures attached thereto. Fig. 2 is a similar view showing the roller lowered upon the intermediate portion of the frame. Fig. 3 is a vertical edge view of one side of the frame, showing the manner of mounting my improved mechanism. Fig. 4 is a similar
25 view of the opposite side of the frame, showing the devices attached thereto. Fig. 5 is a longitudinal central section of the roller and spindles therefor.

30 In the construction of my improved curtain-fixture I provide a roller 1, having spindles 2 projecting from each end thereof. Adjacent to the spindle upon one end I mount a spool 3, and adjacent to the spindle upon the other end I mount a collar 4, provided in its periphery with an annular groove 5. The spool 3 is provided with a cord, which may be secured in place in any convenient manner. I next provide upon each of the lateral portions of the window-frame vertical guide-
35 rods 8, each having their ends bent inwardly at right angles with the other portions of the rod and secured upon the frame in any suitable manner by passing either entirely through the same or socketed therein. The
40 vertical portions of these rods 8 are parallel

with the surface of the frame, but not in immediate contact therewith. I next provide two flexible metal strips 9, shaped as shown in the edge views herewith, each being provided at one end with an aperture 10, another aperture 11 in its intermediate portion, and a slot 12 adjacent to the lower portion, these apertures and slots adapted to permit the passage through them of the guide-rods 8, upon which said strips 9 are vertically
55 movable. Above and adjacent to the slots 12 in each of the strips 9 I provide a small aperture 13 in each of the strips, and at predetermined points upon the vertical surface of the frame I provide projecting pins 14, adapted to enter said small apertures 13 when made to register therewith.

Adjacent to the upper ends of each of the strips 9 are formed journals 15, adapted to receive the spindles 2. These journals are formed by bending together those portions of the strips and rounding out in the end of the bending the circular keepers constituting said journal, the said journals being maintained in form by the contraction of the bent portion by means of brads passing through apertures in the strips and riveted upon each side. This method, however, of providing journals for the spindles is not especially a part of my invention, as any other suitable means may be used for forming said journal, or they may be constructed separately and mounted upon said strips 9. The free ends of said spindles 2 are projected beyond the journals 15 and provided with thumb-nuts 16, by means of which the spools 3 and the collar 4 may be tightened against the inner edges of the strips 9, if desired. In connection with one of the strips 9, mounted upon one of the vertical guide-rods 8, I provide a spiral spring 17, encircling said guide-rod, having its upper end projected through a small aperture through said strip, so as to prevent rotation of said spiral spring, and having its lower end projected inwardly of the window-frame and then upwardly and curved outwardly, so as to form an arc portion adapted to rest within and bear upon the peripheral groove 5 of collar 4, this portion of my device being provided for the purpose of maintaining the roller normally
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in a non-rotatable position. I next provide the curtain-cord 7, having one end secured within the spool 3, as hereinbefore described, and the other end passed over a pulley 19, jour-
 5 naled in a bracket secured in a vertical position upon one of the upright surfaces of the window-frame, the cord after being thus passed through the pulley depending from the same, the lower end being provided with
 10 a tassel, ball, or other device.

The portions of my device being constructed as above, the operation of the same is as follows: The roller 1 having been pushed to the highest attainable position on the win-
 15 dow-frame will remain there, both because of the resiliency of the bearing-strips 9 against the vertical surfaces of the frame and for the further reason that when in this position the projecting pins 14 engage with the small aper-
 20 tures 13 in said strip. When it is desired to lower the roller 1, all that is necessary is to press upon the lower projecting portions of the strips 9, which will press outwardly the portions of the strips containing the aper-
 25 tures 13 and disengage them from said pins 14. At the same time the pressure upon the ends of said strips should be downwardly. By this action the entire mechanism for ro-
 30 tating the curtain, as well as their spindle-bearings, will be drawn down to a point as low as may be permitted by the extent of the guide-rods 8.

The function of the pulley 19 is to give proper direction to the cord after the roller 1
 35 has been drawn to a position lower than said pulley; but when said roller is above the pulley the latter will achieve a lighter function as a keeper and guide for the cord.

By the use of my device the entire curtain
 40 and roller may be placed at any vertical position upon the window-frame, and the use of a curtain of superfluous length thereby obviated. It is frequently the case that only the lower portion of a window is desired
 45 closed, and in many cases the upper glasses of the sash are ground or otherwise rendered opaque. My improved device effectually supplies these functions and uses, as well as furnishing a variation of attachments not per-
 50 mitted by the ordinary construction of such devices nor by the improved construction in common use.

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

1. The combination with a window-frame, 55
 of vertical guide-rods mounted upon each side thereof, flexible strips slidably mounted upon each of said rods, spindle-bearings formed with said strips, a curtain-roller provided with 60
 spindle ends adapted to rest within the journals provided in said strips, a spool mounted adjacent to one of said roller-spindles, a col-
 lar mounted adjacent to the opposite spindle, 65
 thumb-nuts adapted to engage with the projecting screw-threaded ends of said spindles, a friction-spring mounted upon one of said
 guide-rods in bearing contact with the periph- 70
 ery of said collar, a pulley mounted on one of the vertical side portions of the frame, and
 a cord with means for connecting the same with the spool mounted on the said roller.

2. The combination with a window-frame, 75
 of guide-rods mounted upon the vertical side portions thereof, slidable strips mounted upon each of said guide-rods, journal-bear-
 ings formed in the upper portions of said strips, a curtain-roller provided with spindles adapted to be mounted within said journal-
 80 bearings, a spool and a peripheral-grooved collar mounted rigidly upon the opposite ends respectively of said roller, thumb-nuts adapted to engage with the projected screw-threaded
 outer ends of said spindles, a bearing-spring 85
 having one end secured upon one of the said strips and the guide-rod adjacent thereto and its other end adapted to bear upon the pe-
 ripheral-grooved surface of the said collar, a pulley mounted upon one of the vertical side 90
 portions of the window-frame adjacent to the said spool, and a cord secured upon said spool and passed through said pulley, said cord adapted to be drawn downwardly to rotate
 the said roller, and the other portions adapt- 95
 ed for operation, substantially as herein set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FRED SUCCIE.

Witnesses:

JOHN MULTY,
 JOHN F. HOBRUSON.