

G. Gatty, Curtain Fixture,

N^o 32,062.

Patented Apr. 16, 1861.

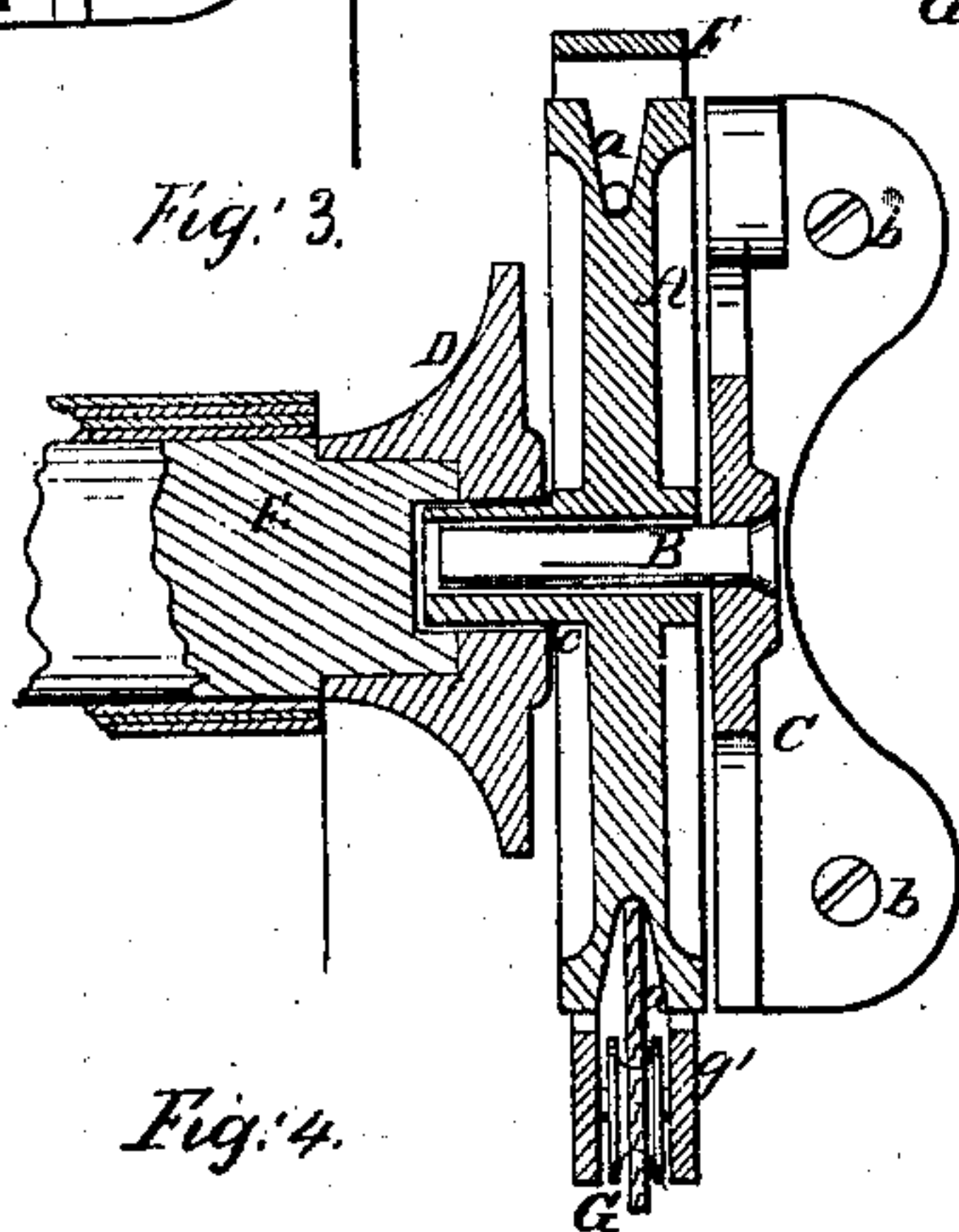
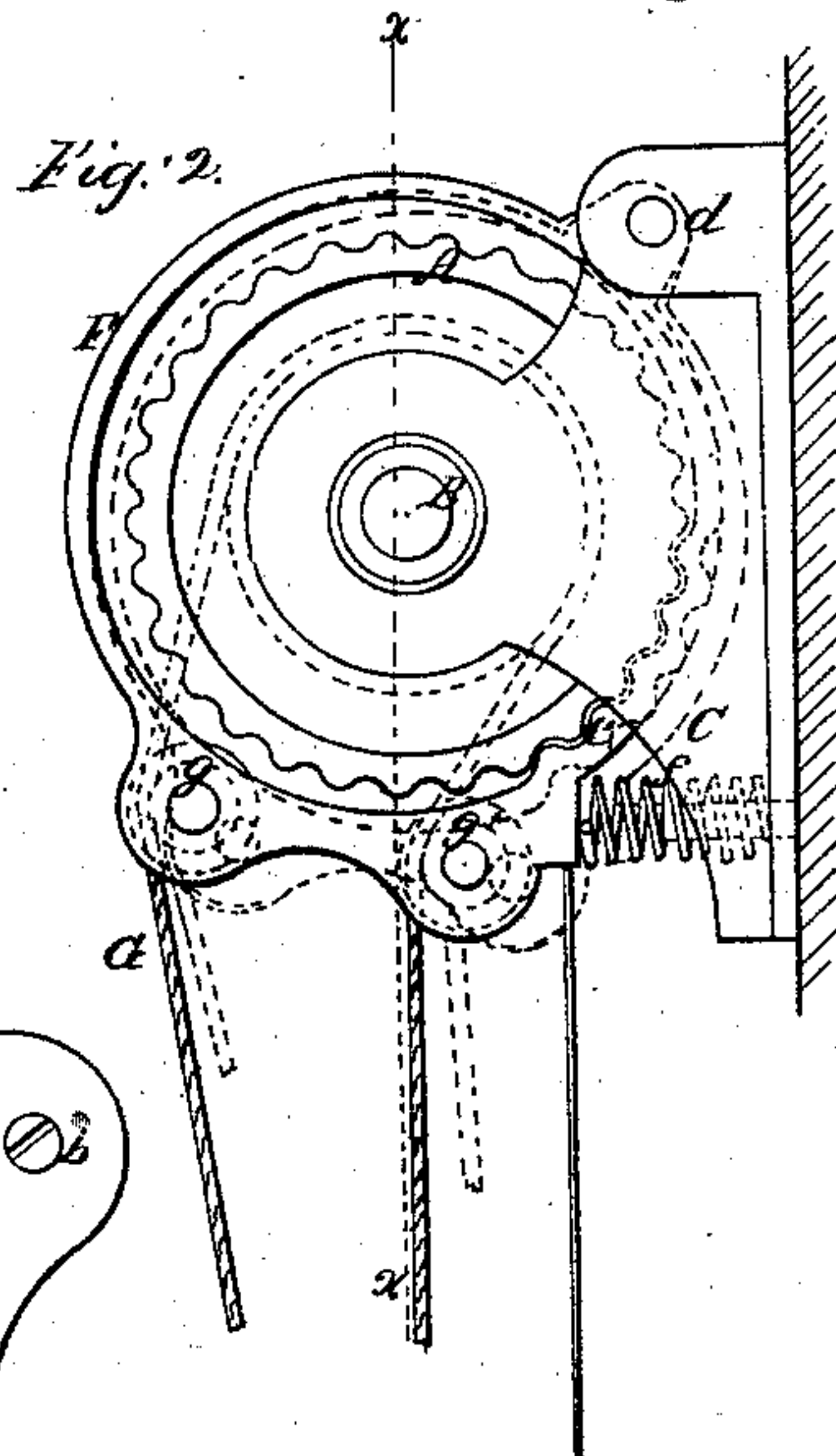
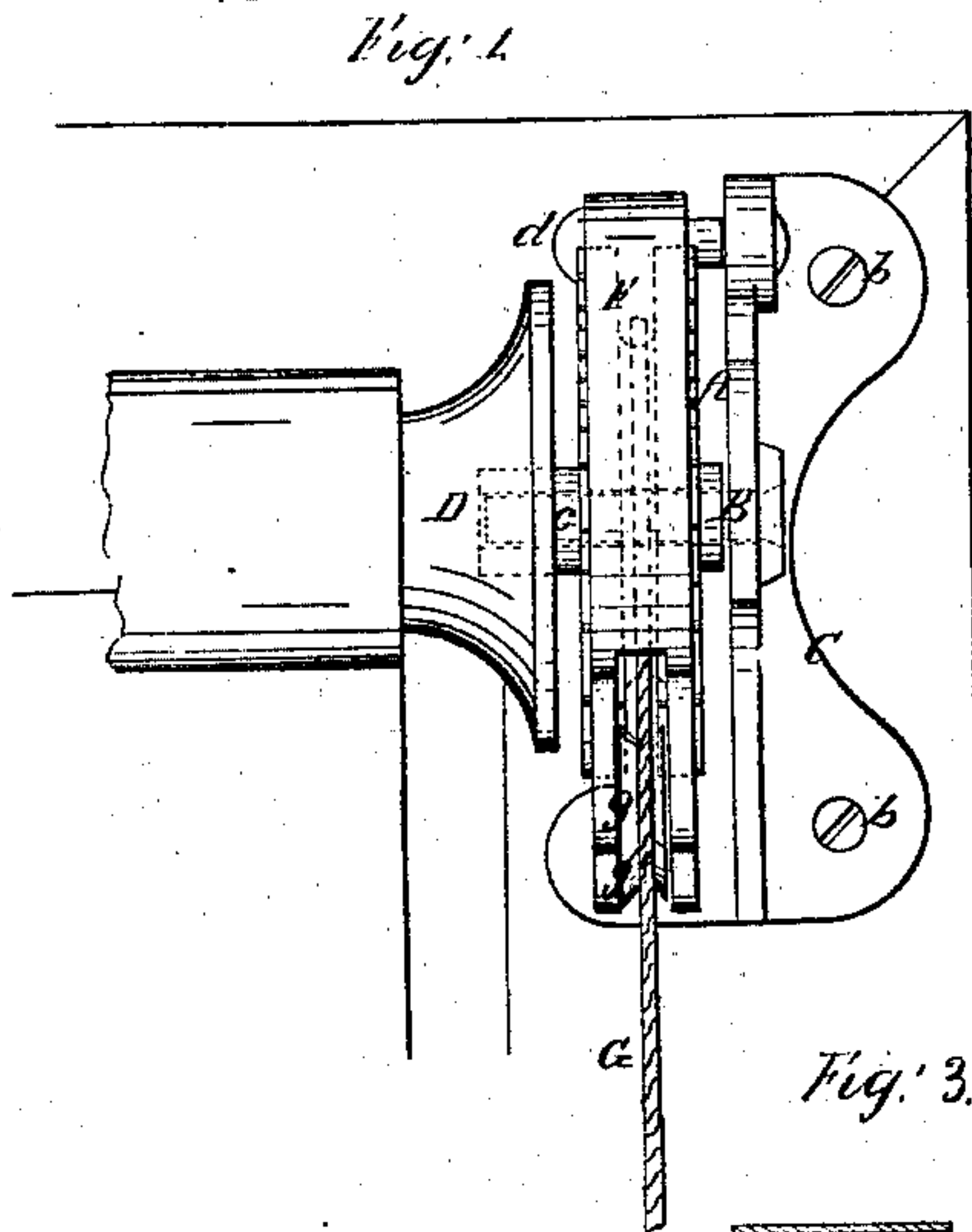
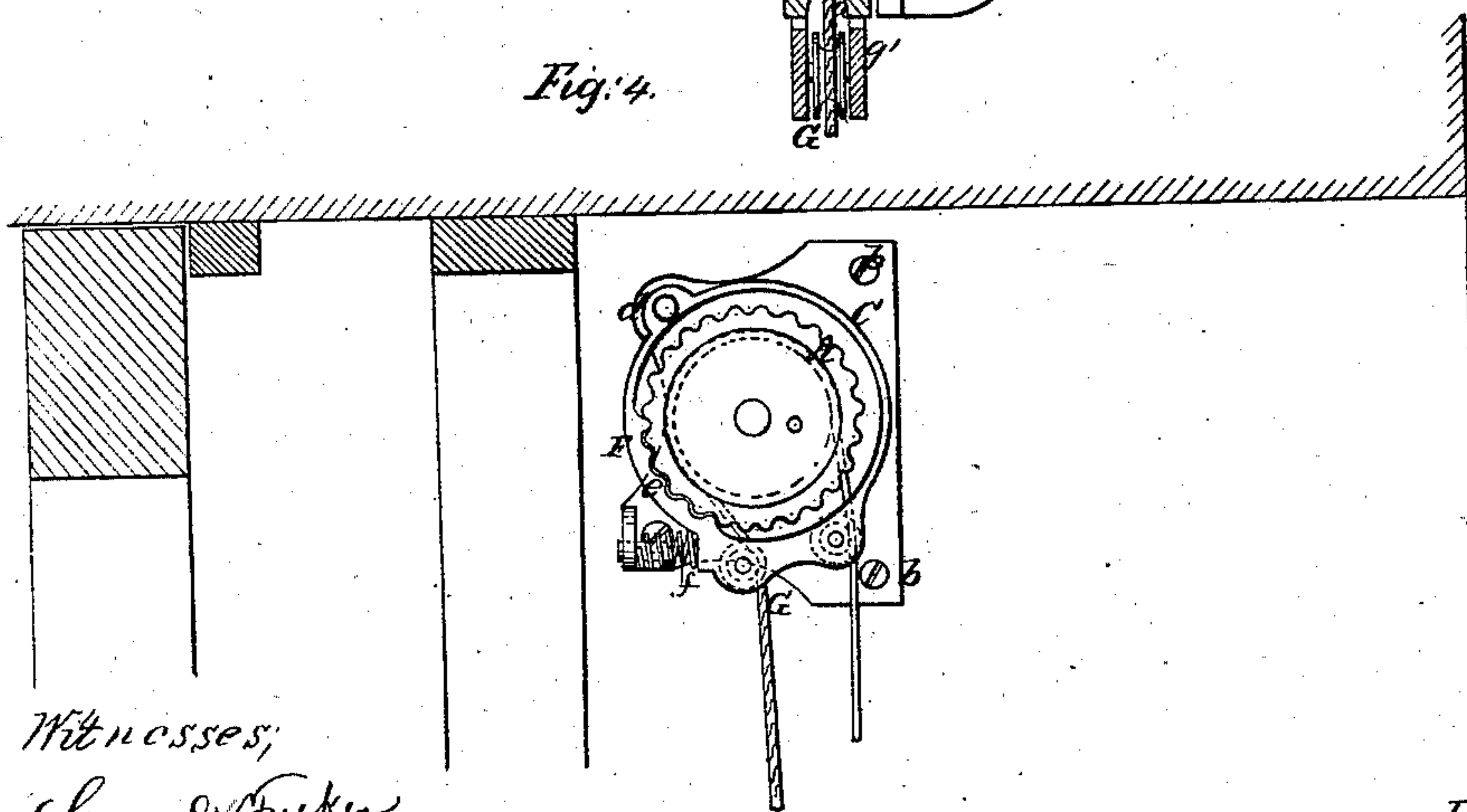


Fig. 4.



Witnesses;

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UNITED STATES PATENT OFFICE.

GEORGE GATTY, OF NEW YORK, N. Y.

CURTAIN-FIXTURE.

Specification of Letters Patent No. 32,062, dated April 16, 1861.

To all whom it may concern:

Be it known that I, GEORGE GATTY, of the city, county, and State of New York, have invented a new and Improved Shade-Fixture; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a front view of my invention. Fig. 2, an outer end view of the same. Fig. 3, a vertical section of the same, taken in the line x, x , Fig. 2. Fig. 4, an inner end view of the same.

Similar letters of reference indicate corresponding parts in the several figures.

This invention consists in having the roller pulley at one end of the shade roller cogged or toothed as well as grooved, and using in connection with said cogged roller pulley a band which encompasses it and is pivoted at one end, the band being toothed and arranged to gear into the roller pulley and having guide cord rollers fitted in it in such relation with the cogged roller pulley that by actuating the cord that passes around the roller pulley the toothed band which retains the shade roller or prevents it from casually turning will be thrown out of gear with the roller pulley and the shade raised or lowered as desired.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A, represents a pulley which has a grooved periphery a , and is cogged or toothed all around as shown in Figs. 2 and 4, the groove a , being shown in Fig. 3. This pulley A, is fitted loosely on a stationary axis or shaft B, which is secured to a bracket C, that is attached to the upper part of the window casing in proper position by screws b , and this bracket may be so arranged as to be secured either to the front of the window casing or to the side of the stile thereof according to the position in which the shade is to be attached to the window.

The pulley A, has a tube c , projecting from its inner side at its center and this tube fits in a metal disk D, which is secured to

one end of the roller E, the tube c , being flat at one side to prevent it turning in the disk D. By this arrangement the pulley A, is connected to the roller E, so that both will turn simultaneously.

To the bracket C, there is attached by a joint or pivot d , a metal band F. This band encompasses the pulley A, as shown clearly in Figs. 2, and 4, and it is toothed at its back part as shown at e , said teeth being kept in gear with the pulley A, by means of a spring f , which bears against the back part of the band, see Figs. 2, and 4.

In the lower part of the band F, there are placed two rollers g, g' , said rollers having such a position relatively with the pulley A, as to give the cord G, which passes around said pulley an inclined position at its upper part at both sides of the pulley.

The shade is attached to the roller in the usual way and the cord G, may extend down any suitable length.

The shade roller it will be seen is prevented from turning casually in consequence of the teeth e , of the band F, engaging with the teeth of the pulley A, and in order therefore to either raise or lower the shade it is necessary that the pulley A, be freed from the teeth e , of the band F. This is effected by simply operating the cord G, and it will be seen by referring to Fig. 1, that when either side of the cord G is pulled down the cord will in consequence of the position of the pulleys g, g' , with pulley A, force or press back the band F, as shown in red and throw the teeth e , out of gear with the teeth of the pulley A, and at the same time the pulley A, will be rotated and the shade rolled up, or down. As soon as the cord G, is relieved of the pull, the spring f , will throw the band F, forward and the teeth e , will engage with the teeth of the pulley A, and the latter be thereby retained or prevented from casually turning. By this arrangement it will be seen that the shade may be raised and lowered with but little friction as there is no pressure on the pulley A, to retain it or to prevent its casual movement, the teeth of the band and pulley effecting such result without pressure.

The shade fixture is thereby rendered more durable than usual, as there is not so much wear of the working parts.

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

The toothed roller pulley A, with cord G, placed on it, in combination with the adjust-

able band F, provided with teeth *e*, rollers *g*, *g'*, and acted upon by a spring *f*, all arranged for joint operation substantially as, and for the purpose set forth. 10

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Witnesses:

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C. W. COWTAN.