

WILLIAM B. HAZZARD.

Improvement in Curtain-Fixtures.

No. 127,975.

Patented June 18, 1872.

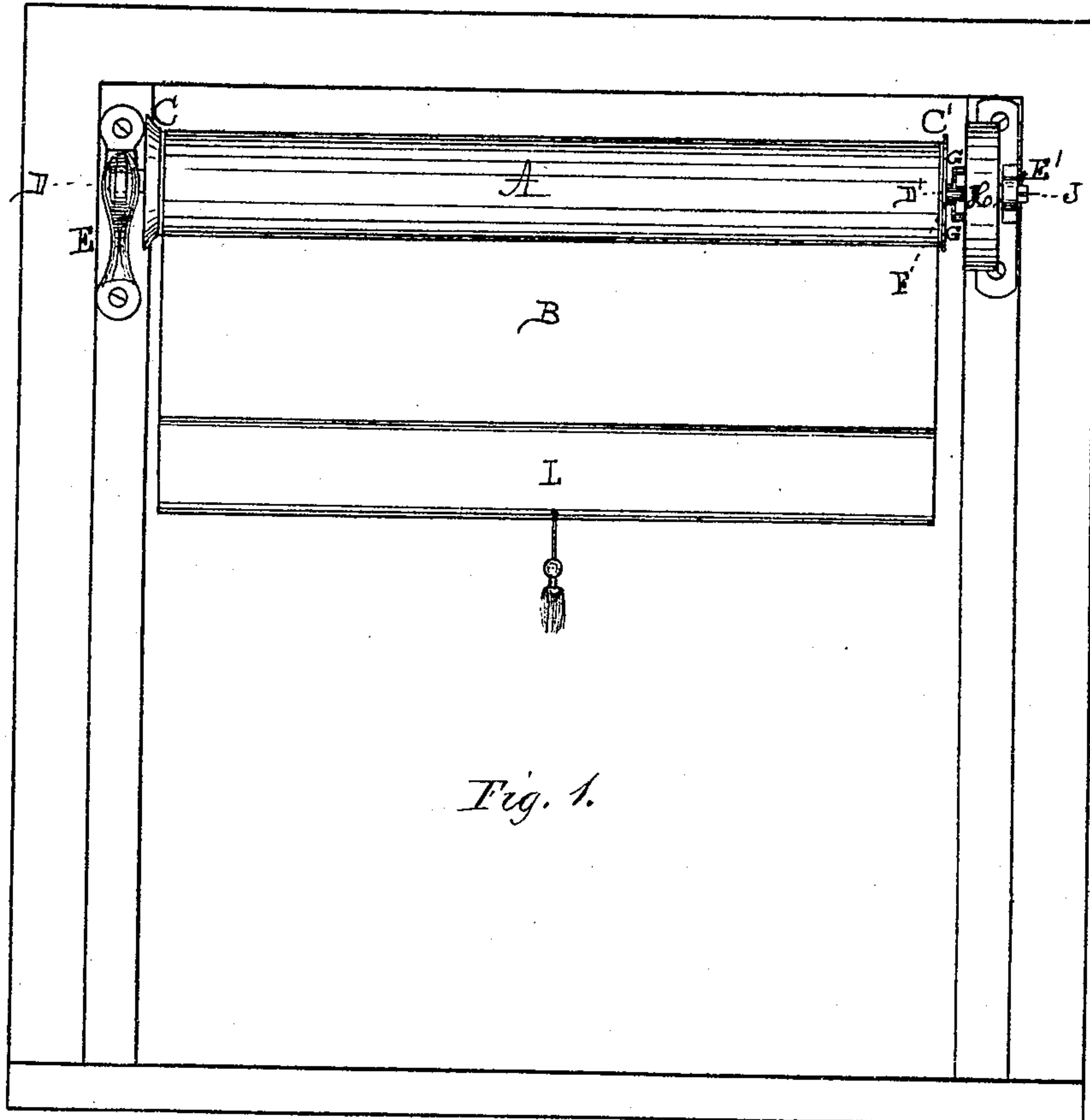


Fig. 1.

Fig. 2.

Fig. 3.

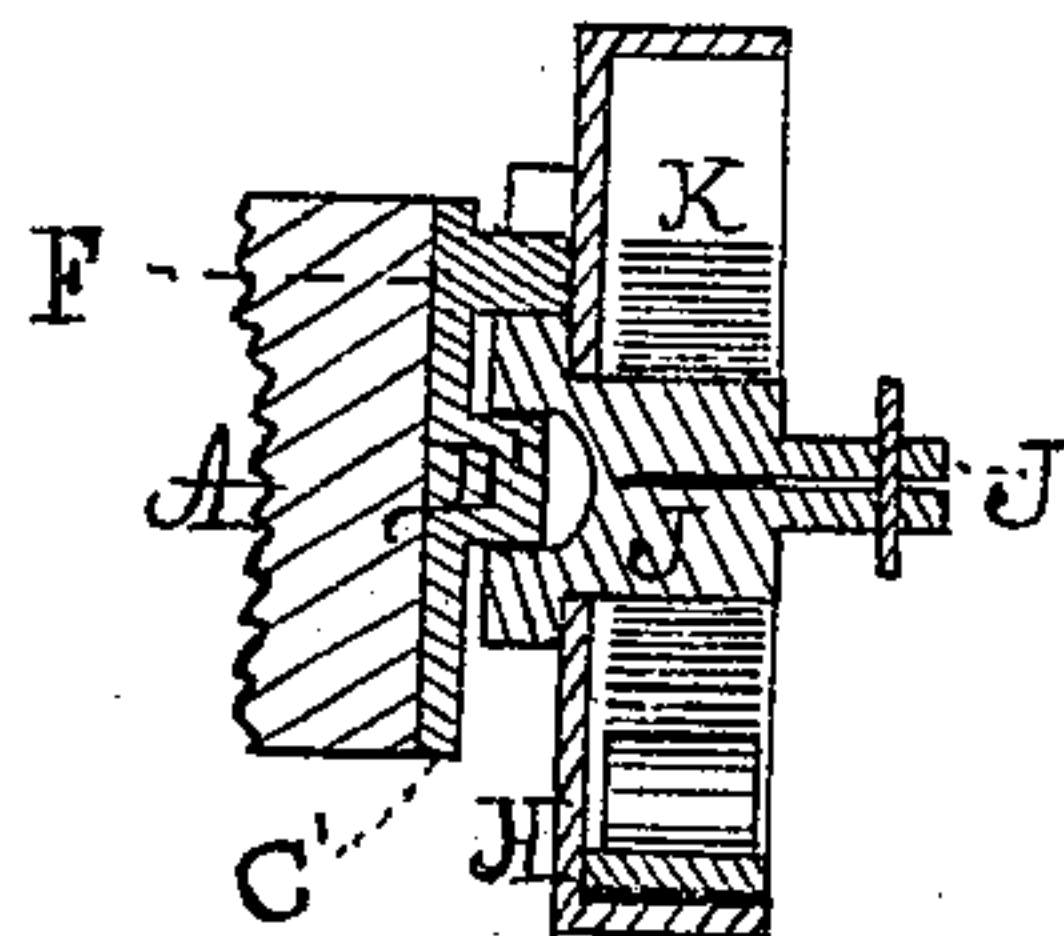
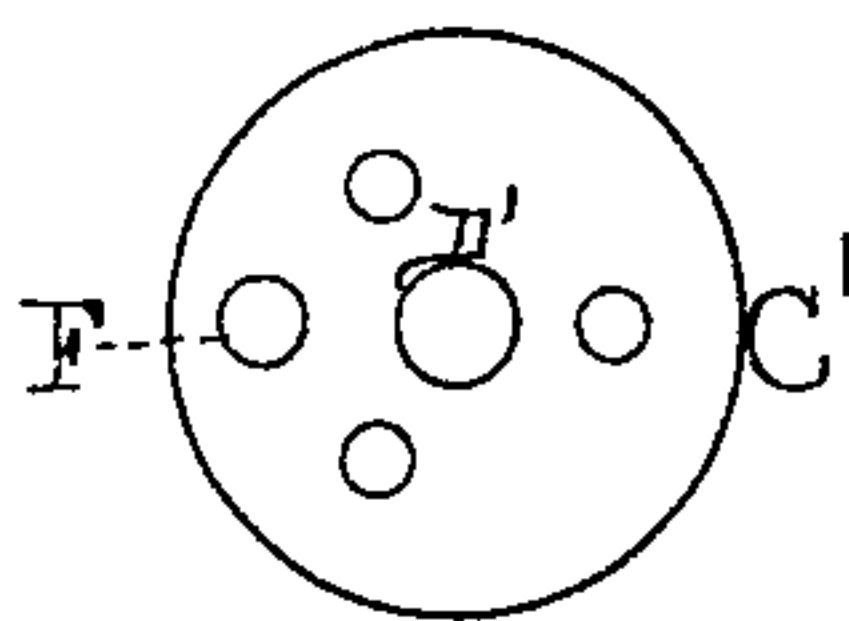
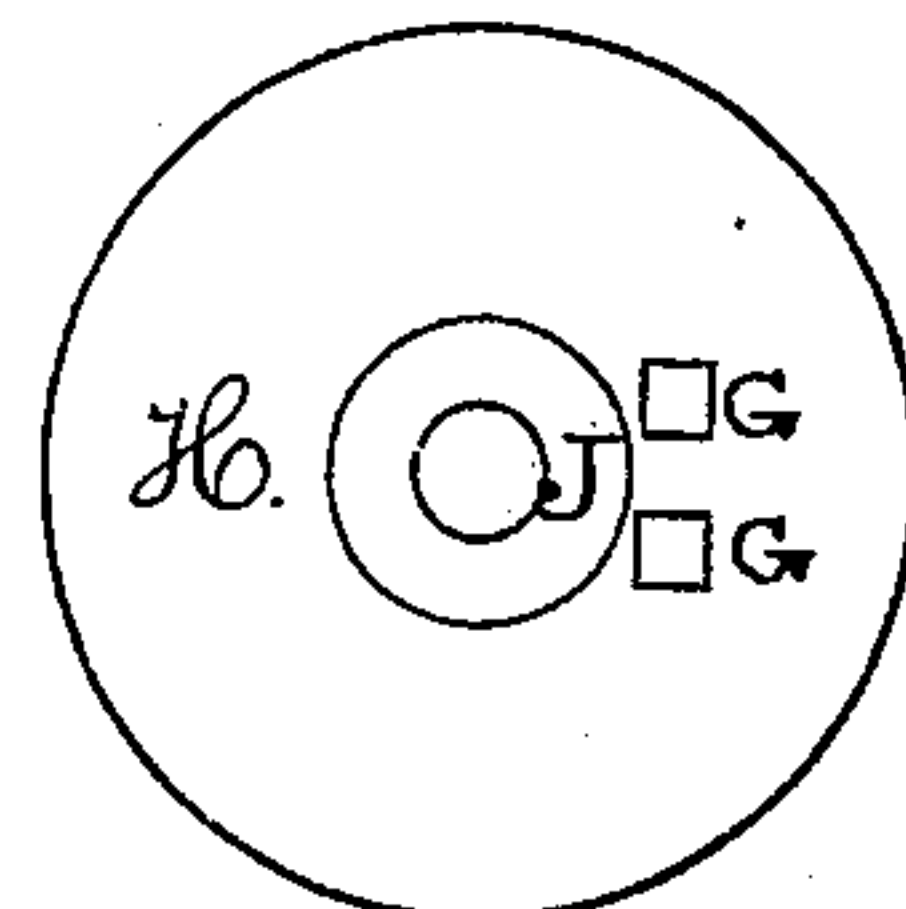


Fig. 4.



Witnesses:

Jacob E. Schiedt

Harry M. Wiedersheim

Inventor:

Wm B. Hazzard
by John A. Wiedersheim
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM B. HAZZARD, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 127,975, dated June 18, 1872.

To all whom it may concern:

Be it known that I, WM. B. HAZZARD, of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Curtain-Fixtures; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a front view of a curtain or shade having my invention applied thereto. Fig. 2 is a longitudinal vertical section of one end thereof. Figs. 3 and 4 are views of detached parts.

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

This invention relates to the class of spring-rollers for curtains or shades, and is readily applicable to the roller in common use. It consists of an attachment between the roller and a rotating casing, in which the spring is arranged, in connection with a stationary bearing-block resting on a bracket, and on which the casing rotates. It also consists in the construction of the bearing-block, as will be set forth.

Referring to the drawing, A represents a roller; B, the curtain or shade; C O', the end plates with pintles D D'; and E the bracket of one end, which parts may be of ordinary form and construction. F represents a pin or lug which projects laterally or longitudinally from one of the end plates, C', between the center and circumference of the latter, and engages with pins or lugs G, projecting similarly from the inner side of a casing, H, toward the pin F. This casing H is preferably of circular form and rotates on a block, J, whose outer end is squared or otherwise constructed to be fixed to a bracket, E', and remain stationary thereon, and its inner end has an opening to receive the pintle D' of the end plate C', whereby the roller A has a bearing at one end on the block. Within the casing H is located a spring, K, one end of which is attached to the casing and the other end to

the block J, which is preferably split or divided to receive and hold the end of the spring applied thereto.

In operation the plate C' is secured to the roller A, the pintle D' is introduced into the opening in the block J, and the pins F G engage or interlock with each other. The lower end of the curtain will be weighted by a strip of metal or otherwise, as at L, so as to counterpoise the power of the spring.

When it is desired to lower the curtain, it is drawn out or down to the desired extent, during which operation the spring is wound or contracted. On releasing the hold of the hand, the weight of the curtain and power of the spring being equalized, the curtain is caused to remain stationary in the desired position.

In order to elevate the curtain it is taken hold of so as to lift the weight thereof, whereby the spring is permitted to unwind or expand, thus communicating motion to the roller A, and causing the curtain to be rolled thereon.

My invention is readily applicable to the old and well-known rollers by securing to one of the end plates a pin or lug, F, or removing said plate and applying instead a plate having such pin or lug, so that in either case the plate or end of the roller will engage with the rotating casing, and operate as previously stated.

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

1. The engaging pins F G, the rotating casing H, spring K, and stationary block J, combined and operating substantially in the manner and for the purpose described.

2. The block J forming the bearing of one end of the roller A, the fulcrum of the rotating spring-casing H, the attachment of one end of the spring K, and the support of one end of the whole device on the bracket E', substantially as and for the purpose described.

The above signed by me this 18th day of May, 1872.

WM. B. HAZZARD.

Witnesses:

WM. P. HIBBERD,
CLINTON G. STEES.