

B. HANDFORTH.  
Shade-Fixture.

No. 211,996.

Patented Feb. 4, 1879.

Fig. 1.

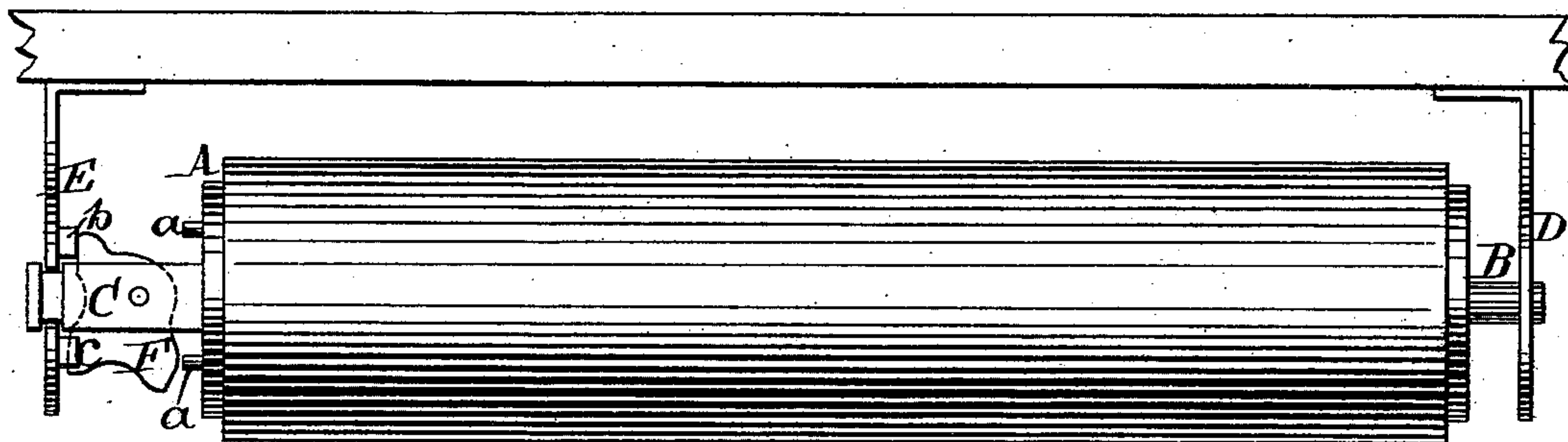


Fig. 2.

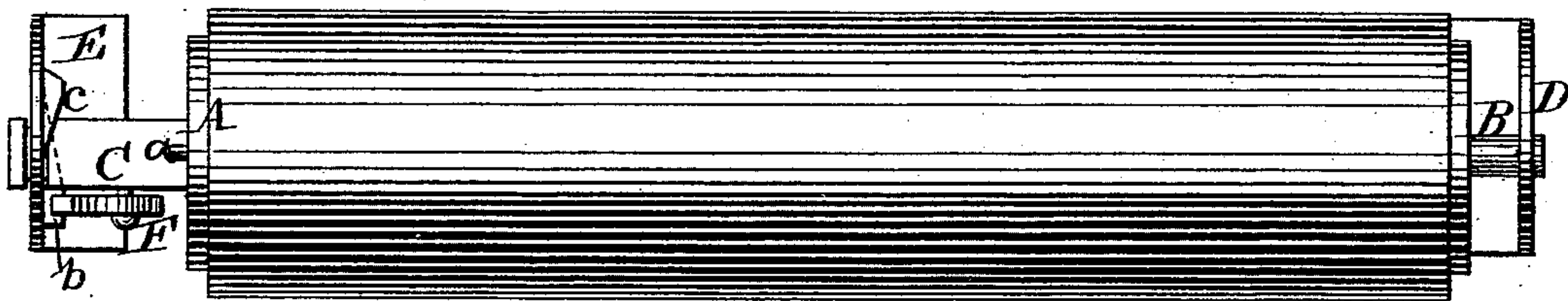


Fig. 3.

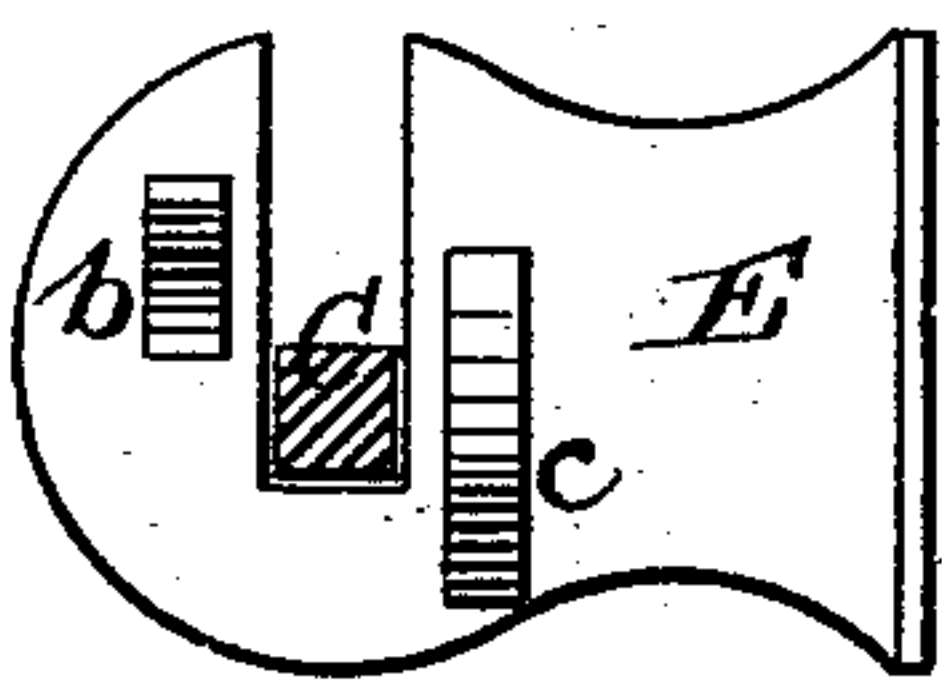


Fig. 4.

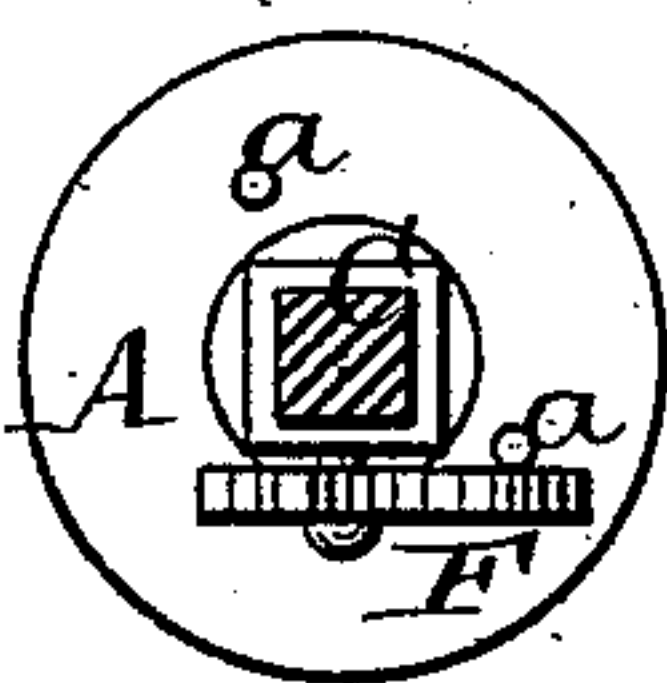


Fig. 5.

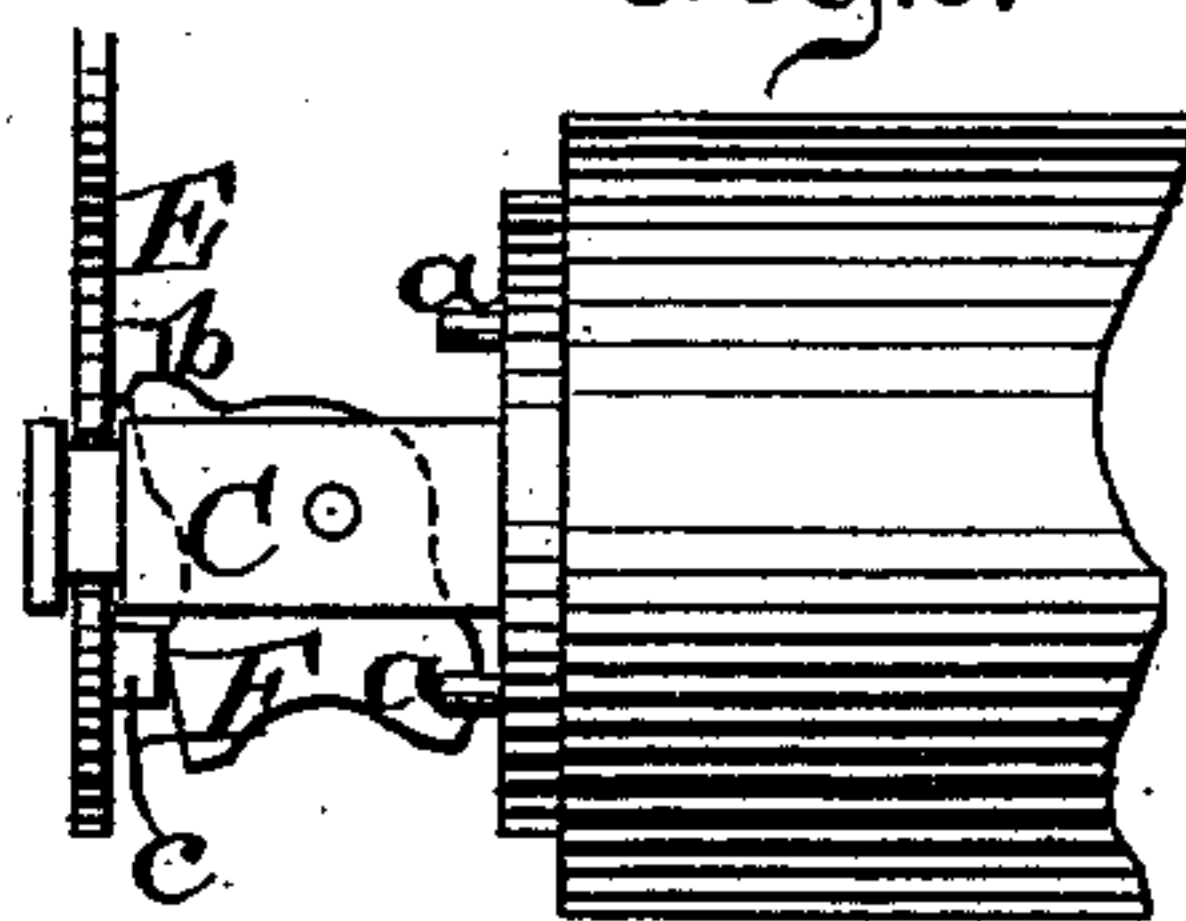


Fig. 6.

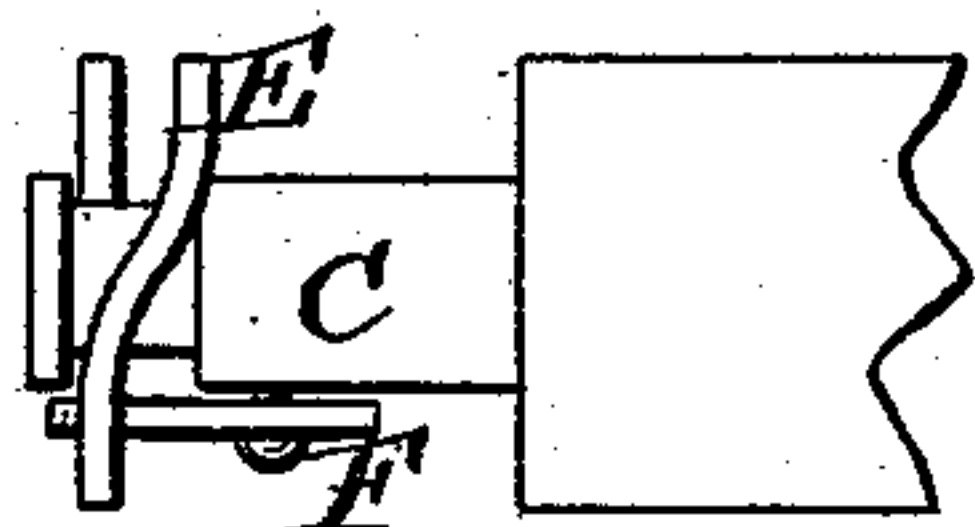
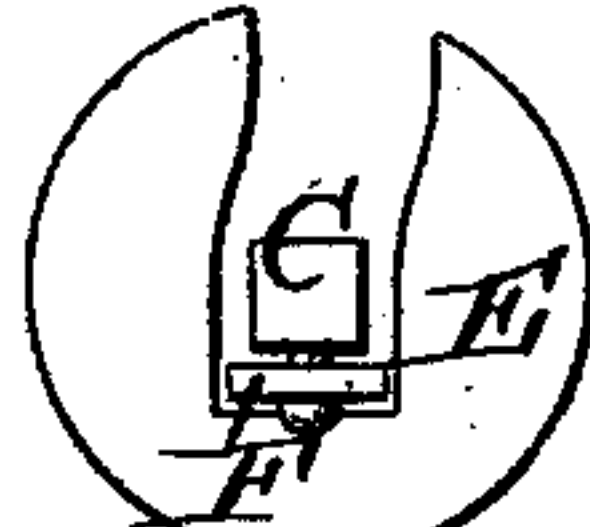


Fig. 7.



Witnesses.  
Chas. Wählers.  
H. C. Hauff.

Inventor.  
Benjamin Handforth  
by his attys.  
Van Santward & Hauff

# UNITED STATES PATENT OFFICE.

BENJAMIN HANDFORTH, OF HOBOKEN, NEW JERSEY.

## IMPROVEMENT IN SHADE-FIXTURES.

Specification forming part of Letters Patent No. **211,996**, dated February 4, 1879; application filed December 19, 1878.

*To all whom it may concern:*

Be it known that I, BENJAMIN HANDFORTH, of Hoboken, Hudson county, New Jersey, have invented a new and useful Improvement in Shade-Fixtures, which invention is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 represents a top view of a shade-roller and its brackets embracing my invention. Fig. 2 is a front view of the same. Fig. 3 shows the inner face of one of the brackets. Fig. 4 is an end view of the roller. Fig. 5 shows the position of the dog when the roller is being removed. Figs. 6 and 7 show modifications of my invention.

The aim of my invention is to produce a simple and effective means for automatically arresting a spring shade-roller when the same is removed from its brackets to prevent unwinding of its spring, and for automatically releasing the same when it is put in place.

It consists in the combination of a spring shade-roller having one or more stop-pins projecting from one end, a non-rotating arbor socketed in the end of said roller, a dog pivoted to said arbor and arranged to swing to and from the end of the roller and path of the stop-pins, and a bracket slotted to receive the non-rotating arbor and provided with projections or cams, one of which is arranged to throw the dog out of the path of the pins of the roller when the said roller is placed in its brackets, and the others to throw said dog into the path of the said pins when the roller is withdrawn from its brackets.

In the drawings, the letter A designates a spring shade-roller of ordinary construction, the same being provided with a cylindrical gudgeon, B, at one end and a polygonal arbor, C, at its other end.

D designates a bracket having a hole to receive the gudgeon B, and E is a bracket having a slot to receive the arbor C. When the roller is hung in these brackets the gudgeon B turns with the roller, while the arbor C remains stationary.

From that end of the roller A containing the arbor C project stop-pins *a*, (one or more,) while on the arbor adjacent to said end of the

roller is pivoted a dog, F, so that the latter can readily be brought into and out of the path of the stop-pins, whereby the roller is arrested or released, as the case may be. I construct the bracket E to produce this movement of the dog F automatically and at the proper times, and can accomplish the desired result in different ways.

In the example shown in Figs. 1 to 5, inclusive, the dog is actuated by means of two beveled lugs, *b c*, which are situated on opposite sides of the slot in the bracket E, and one of which brings said dog to an inner position, as shown in Fig. 5, when the roller is lifted or removed from the brackets, while the other brings the dog to an outer position, and retains the same in this position, as shown in Fig. 1, when the roller is put in place.

In Figs. 6 and 7 I have shown two modifications in the construction of the bracket E, one of which, Fig. 6, consists in curving the bracket on one side of its slot, and providing the dog F with a notch to engage with the curved part thereof, while the other, Fig. 7, consists in curving the edges of the slot and arranging the dog F to protrude through the same.

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the spring shade-roller, having one or more stop-pins projecting from one end, the non-rotating arbor C, having the dog F pivoted thereto to swing to and from the end of the roller on opposite sides of the arbor, and the slotted bracket E, having the projections or cams *b c*, one of which is arranged to throw the said dog toward the roller and cause it to stand in the path of the pins when the roller is removed from the bracket, and the other of which throws the dog out of the path of the pins when the said roller is placed in its brackets, substantially as described.

In testimony whereof I have hereunto set my hand and seal this 17th day of December, 1878.

BENJ. HANDFORTH. [L. S.]

Witnesses:

W. HAUFF,

CHAS. WAHLERS.