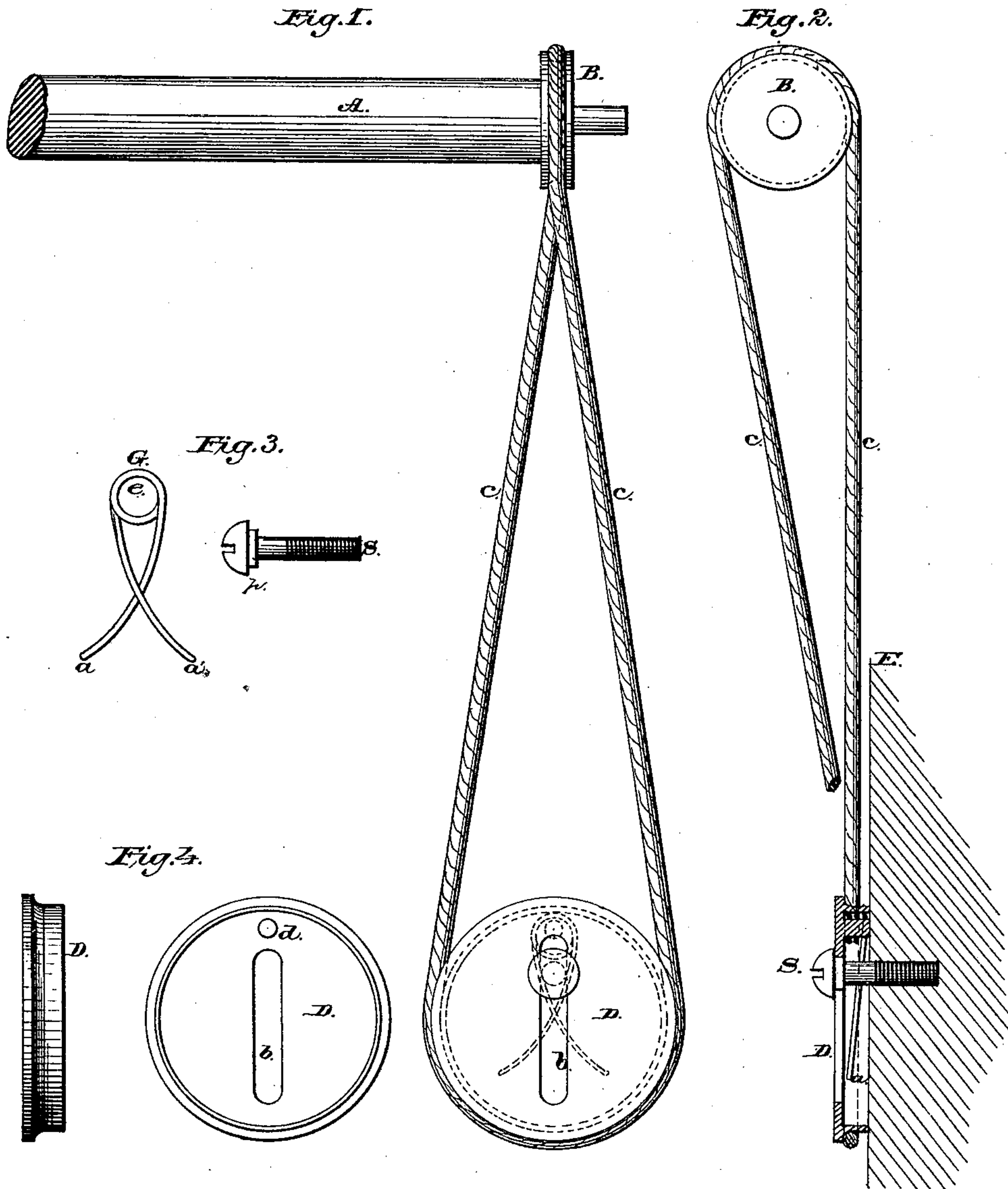


H. HOLCROFT.  
CURTAIN CORD-RETAINER.

No. 185,177.

Patented Dec. 12, 1876.



Attest:

W. T. Marcus.  
A. M. Kelly

Inventor:

Henry Holcroft  
by His Attorney  
John F. Himm.

# UNITED STATES PATENT OFFICE.

HENRY HOLCROFT, OF MEDIA, PENNSYLVANIA, ASSIGNOR OF ONE-HALF  
HIS RIGHT TO CANBY S. SMITH, OF SAME PLACE.

## IMPROVEMENT IN CURTAIN-CORD RETAINERS.

Specification forming part of Letters Patent No. **185,177**, dated December 12, 1876; application filed  
March 1, 1876.

*To all whom it may concern:*

Be it known that I, HENRY HOLCROFT, of Media, Delaware county, and State of Pennsylvania, have invented a new and useful Improvement in Curtain-Cord Retainers, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of my invention is to provide a simple and cheap cord-retainer for holding window-curtains, that are wound on a roller, in a fixed position, with a uniform tension on the cord when exposed to a changing atmosphere.

The invention consists in the combination of a cord-holder having a slot, a coiled spring formed with two curved arms, and a screw with a flat shoulder under the head for the cord-holder to slide on, as will be hereafter described.

Figure 1 represents a front view of the cord-retainer, cord, and section of a curtain-roller. Fig. 2 represents an edge view of the same. Part is shown in section. Fig. 3 is a view of the spring and screw. Fig. 4 is a view of the sliding plate or cord-holder.

Similar letters in the drawings refer to like parts.

A is the curtain-roller; B, the cord-pulley; C, the cord; D, the cord-holder; G, the spring; S, the screw. The cord-holder D can be made of brass or iron. It may be lacquered or nickel-plated. This holder D is made with a slot, *b*, and a small stud-pin, *d*. The spring G is formed of two or more coils of spring-wire, and the ends are curved to cross each other, as shown in the drawings. S is an oval wood-screw, having a shoulder, *p*.

The operation of my cord-retainer is as follows: The spring G is put in the holder D, the stud-pin *d* passing through the eye of the

spring, which holds it in position. The screw S is then put through the slot *b*, and between the arms of the spring at that part marked *e*. It is then screwed into the jamb-casing of the window-frame, with the eye of the spring up, as is shown in the drawings. The cord is then put on the holder D and pulley B, and when the cord absorbs moisture from the atmosphere and shortens the cord, the spring G will let the holder D rise, it sliding on the flat shoulder *p* of the screw S in the slot *b*. When the cord discharges the moisture the slack of the cord will be taken up by the spring G acting against the screw S, which will force the holder D down. This action of the spring against the screw will keep the cord of one uniform tension through various changes of the atmosphere.

The holder D is shown in the drawings of a circular form; but they may be made in many different forms.

I am aware that it is not new to use a coiled spring having one or two arms that act against a stud-pin in a moving cord-holder. This I do not claim; and that my invention may be distinguished from the above, I would state that it will be seen that my spring acts against the screw S, which is fixed, and the only fixed piece or part belonging to my cord-holder, and it will be seen that my spring acts on or against the screw S in a peculiar manner, and distinguishes it from what has been done before.

I claim—

A curtain-cord retainer provided with a slot, *b*, and screw S, in combination with a coiled spring, G, provided with two arms, *a*, *a'*, as shown and described.

H. HOLCROFT. [L. S.]

Witnesses:

JOHN SHINN,  
L. M. BOND, Jr